UTC HERMETIC SEALED POWER TRANSFORMERS

To MIL-T-27A Specs., MIL Type TF1RX03—Case Number.

Primary 115 volts, 50/60 cycles . . . suited to 400 cycle service

MIL-T-27A RATINGS IN REGULAR TYPE, **INDUSTRIAL RATINGS IN BOLD TYPE.**

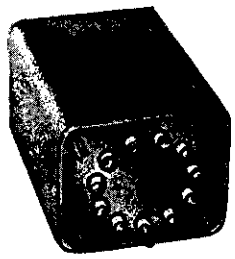
"L" ratings are for choke input filter, "C" for condenser input.

Type No.	HV Sec. C.T	Approx* DC volts	DC MA	Fil. Wdg.	Approx* DC volts	MA DC	Fil. Wdg.	Case A	Case B	Case C	Wgt. Lbs.
H-80	450	C 235	20	6.3VCT-2A	C 210	30	6.3VCT-2.5A		FA		1½
								2⁵⁄₁₆	2¹⁄₁₆	3⅛	
H-81	500	L 180	65		L 170	75			HA		4
		C 265	55	6.3VCT-3A	C 240	65	6.3VCT-3A				
	550	L 200	60	5V-2A	L 180	70	5V-2A				
		C 300	50		C 280	60		3¹⁄₁₆	2⅝	4¼	
H-82	540	L 180	110		L 140	180			JB		5
		C 280	65	6.3VCT-4A	C 270	80	6.3VCT-4A				
	600	L 200	100	5V-2A	L 170	170	5V-2A				
		C 325	60		C 315	75		3¹⁄₁₆	3¹⁄₁₆	3⅛	
H-83	600	L 180	140		L 160	190			JA		6
		C 320	85	6.3V-5A	C 270	115	6.3V-6A				
	670	L 210	130	5V-2A	L 190	180	5V-2A				
		C 370	80		C 340	105		3⅝	3¹⁄₁₆	4⅛	
H-84	700	L 255	170		L 240	210			KA		6½
		C 400	110	6.3V-5A	C 360	150	6.3V-6A				
	750	L 275	160	6.3V-1A	L 260	200	6.3V-1.5A				
		C 420	105	5V-3A	C 380	140	5V-4A	3¹⁵⁄₁₆	3⅝	5¼	
H-85	700	L 250	220		L 235	260			LA		10
		C 400	150	6.3V-6A	C 355	195	6.3V-6A				
	750	L 270	210	6.3V-1.5A	L 255	250	6.3V-1.5A				
		C 410	140	5V-3A	C 375	185	5V-4A	4⅝	3¹¹⁄₁₆	5¹¹⁄₁₆	
H-86	720	L 240	260		L 220	310			MB		12
		C 425	170	6.3V-6A	C 410	210	6.3V-7.5A				
	790	L 270	250	6.3V-2A	L 250	300	6.3V-2A				
		C 450	160	5V-3A	C 440	200	5V-4A	4¹¹⁄₁₆	4	4¹⁵⁄₁₆	
H-87	730	L 245	320		L 210	420			NB		16
		C 390	210	6.3V-6A	C 350	310	6.3V-6A				
	800	L 275	300	6.3V-2A	L 245	400	6.3V-2A				
		C 440	200	5V-4A	C 400	300	5V-4A	5¹⁄₁₆	4⅝	5½	
H-88	800	L 280	300		L 260	375			NA		18
		C 420	190	6.3V-6A	C 380	235	6.3V-7.5A				
	1000	L 370	290	6.3V-2A	L 350	350	6.3V-2A				
		C 550	180	5V-4A	C 510	225	5V-4A	5¹⁄₁₆	4⅝	6¹³⁄₁₆	
H-89	850	L 320	320		L 300	400			OA		21½
		C 510	280	6.3V-8A	C 460	270	6.3V-8A				
	1050	L 400	300	6.3V-4A	L 380	375	6.3V-4A				
		C 650	250	5V-6A	C 600	300	5V-6A	5½	4½	6¾	
H-90	700	L 230	140	6.3V-5A	L 210	190	6.3V-6A		JA		6
	850	L 290	130	5V-2A	L 260	180	5V-3A	3⅝	3¹⁄₁₆	4⅛	
H-91	900	L 320	190	6.3V-5A	L 290	270	6.3V-6A		KA		8½
	1000	L 360	180	6.3V-1A	L 320	250	6.3V-1.5A				
				5V-3A			5V-4A	3¹⁵⁄₁₆	3⅝	5¼	
H-92	900	L 330	230	6.3V-6A	L 320	290	6.3V-8A		MB		12
	1050	L 385	220	6.3V-2A	L 370	270	6.3V-2A				
				5V-4A			5V-4A	4¹¹⁄₁₆	4	4¹⁵⁄₁₆	
H-93	1000	L 370	280	6.3V-8A	L 340	340	6.3V-10A		OA		21½
	1200	L 465	250	6.3V-4A	L 455	300	6.3V-5A				
				5V-6A			5V-6A	5½	4½	6¾	

* After appropriate H series choke

The "H" series of hermetic power transformers are suited to a wide variety of electronic applications in both military and industrial service. Conservative design provides maximum reliability through low temperature rise and high insulation safety factors. All units are in MIL cases with rugged internal construction stainless steel studs.

The tapped high voltage winding provides either of two secondary voltages for greatest versatility. The listings indicate DC voltages and permissible currents for both choke and condenser input filters, as well as for military and industrial applications (see page 11).



UTC HERMETIC SEALED PLATE TRANSFORMERS

To MIL-T-27A Specs., MIL Type TF1RX02—Case Number.

Primary: 105/115/210/220 Volts . . . 50/60 cycles.

MIL-T-27A RATINGS IN REGULAR TYPE, **INDUSTRIAL RATINGS IN BOLD TYPE.**

All ratings are for choke input filter.

No. Type	Sec. V. C.T.	Approx.* DC volts	MA DC	Choke No.	MA DC	Choke No.	Case A	Case B	Case C	Wgt. Lbs.
H-110	1050	365	275	H-75	385	H-77		MB		
	1200	430	250	H-75	350	H-77	4¹¹⁄₁₆	4	4¹⁵⁄₁₆	14
H-111	1050	415	440	H-77	550	H-77		NA		
	1200	480	400	H-77	500	H 77	5¹⁄₁₆	4⅝	6¹³⁄₁₆	19
H-112	1500	615	290	H-77	350	H-77		NA		
	1900	790	250	H-76	300	H-76	5¹⁄₁₆	4⅝	6¹³⁄₁₆	19
H-113	2500	1050	280	H-77	340	H-77	6	5⅛	6¾	27
	3000	1275	250	H-76	300	H-76				
H-114	2500	1050	450	H-79	500	H-78	6¾	6½	8	51
	3000	1265	400	H-78	450	H-78				
H-115	3500	1500	265	H-77	350	H-77	6¾	6½	8	48½
	4400	1900	225	H-77	300	H-77				
H-116	5000	2125	450	H-79	560	H-79	8½	9¾	10¼	95
	6000	2550	400	H-78	500	H-78				
H-117	5000	2125	900	H-79	1100	H-79	11	11	14¾	160
	6000	2550	800	H-79	1000	H-79				

*After filter choke.

The tapped high voltage winding on the "H" series hermetic plate transformers provides either of two secondary voltages for greatest versatility. The listing shows the DC voltage and permissible currents for a wide variety of applications in both military and industrial service. High insulation safety factor and low temperature rise provide a maximum in reliability. The first three types are in MIL cases. The others are in rectangular cases with terminals opposite mounting for greatest convenience in typical power supply application, stainless steel studs.

UTC HERMETIC SEALED FILTER CHOKES

To MIL-T-27A Specs., MIL Type TF1RX04—Case Number.

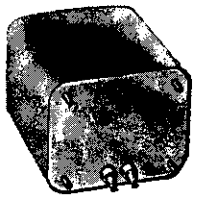
MIL-T-27A RATINGS IN REGULAR TYPE, INDUSTRIAL RATINGS IN BOLD TYPE.

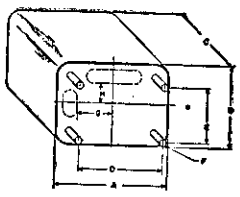
Type No.	Ind. Hys.	@ MA DC	Ind. Hys.	@ MA DC	Ind. Hys.	@ MA DC	Ind. Hys.	@ MA DC	Res. Ohms	Max. DCV* Ch. Input	Test V. RMS	Case
H-70	20	20	18	25	14.5	30	10	35	925	350	1000	AH
H-71	20	40	18.5	50	15.5	60	10	70	350	500	2500	FB
H-72	13	70	11.5	85	9.5	105	7	125	215	500	2500	GB
H-73	11	100	9.5	125	7.5	150	5.5	175	150	700	2500	HB
H-74	11	150	10	170	8.5	195	6.5	215	135	700	2500	JB
H-75	11	200	10	230	8.5	250	6.5	300	90	700	2500	KB
H-76	11	200	10	230	8.5	250	6.5	300	85	1500	4500	LB
H-77	10	300	9	350	8	390	6.5	435	60	2000	5500	MB
H-78	7	400	6.5	430	6	465	5.5	500	48	2500	7000	OA
H-79	7	800	6.5	900	6	1000	5.5	1250	20	3000	9000	7x7x8

Inductance test is performed at maximum military current rating.

* Based on maximum ripple voltage across choke in choke input filter circuit, in terms of DC output voltage. Does not apply to condenser input circuits.

The multiple ratings for the "H" series of filter chokes suit these units for the complete gamut of military and industrial applications. Conservative design provides maximum reliability through low temperature rise and high insulation safety factor. All units employ rugged internal construction and MIL cases (except H-79 which has mounting opposite terminals), stainless steel studs.





DIMENSIONS "H" SERIES FILTER CHOKES, INCHES

Type No.	A	B	C	D	E	F	G	H	Cutout	Wt. Lbs.
H-70	1 1/8	1 1/16	1 3/4	1 1/4 diagonal		6—32(2)		3/16	3/8 x 5/8	.4
H-71	2 1/16	2 1/16	2 1/2	1 11/16	1 1/16	6—32		15/32	1/2 x 1 1/4	1 1/2
H-72	2 3/4	2 3/8	2 1/16	2 1/8	1 3/4	6—32		17/32	1/2 x 7/8	2 1/2
H-73	3 1/16	2 5/8	3 1/16	2 19/64	1 53/64	8—32		5/8	5/8 x 1 1/8	3 1/2
H-74	3 1/16	3 1/16	3 7/8	2 5/8	2 1/8	8—32		3/4	5/8 x 1 1/8	5
H-75	3 1/16	3 3/8	4 1/16	3	2 1/16	10—32	1 1/16		5/8 x 1 1/16	8
H-76	4 1/16	3 1/16	4 1/2	3 1/16	2 1/16	10—32	1 5/32		11/16 x 1 1/16	11
H-77	4 1/16	4	4 1/16	3 1/16	3	1/4—20	1 1/2		11/16 x 1 1/4	15
H-78	5 1/2	4 1/2	6 3/4	3 3/4	3	1/4—20			1 x 2	25
H-79	7	7	8	5 7/8	5 7/8	3/8—16(6)			term. opp. mtg.	60

UTC HERMETIC SEALED FILAMENT TRANSFORMERS

To MIL-T-27A Specs., MIL Type TF1RX01—Case Number.

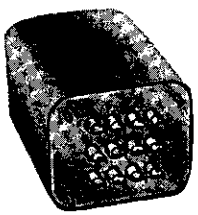
Primary: 105/115/210/220 volts . . . 50/60 cycles, except H-130 (115 v.) and H-131 (115/220 v.)

Suited to 400 cycle service

MIL-T-27A RATINGS IN REGULAR TYPE, INDUSTRIAL RATINGS IN BOLD TYPE.

Type No.	Sec. Volts	Amps. (MIL)	Amps. (Ind)	Test Volts RMS	Case	A	B	C	Wgt. Lbs.
H-120	2.5	10	12	4000	GB	2 3/4	2 3/8	2 1/16	2 1/2
H-121	2.5	10	12	10000	JB	3 9/16	3 1/16	3 7/8	4 1/2
H-122	2.5	20	26	10000	KB	3 15/16	3 3/8	4 5/16	6
H-123	2.5	5	7.5	10000	NB	5 1/16	4 5/16	5 1/2	13
	2.5	5	7.5						
	2.5	10	15						
H-124	5	3	3	2000	FB	2 5/16	2 1/16	2 1/2	2
H-125	5	10	12	10000	KB	3 15/16	3 3/8	4 5/16	6
H-126	5	20	25	10000	LA	4 5/16	3 11/16	5 9/16	10
H-127	5	20	30	21000	NA	5 1/16	4 5/16	5 1/2	17
H-128	5	60	75	21000		6 1/2	5 1/2	7 3/4	34
H-129	5	10	12	21000		6 1/2	5 1/2	7 3/4	28
	5	10	12						
	5	20	24						
H-130	6.3CT	.6	.75	1500	AJ	1 5/8	1 5/8	2 3/8	.65
H-131	6.3CT	2	2.5	2500	FB	2 5/16	2 1/16	2 1/2	1 1/2
H-132	6.3CT	6	7	2500	JA	3 9/16	3 1/16	4 7/8	6
	6.3CT	6	7						
H-133	6.3CT	7	8	2500	HB	3 1/16	2 5/8	3 3/16	3 1/2
H-134	6.3CT	10	12	2500	HA	3 1/16	2 5/8	4 1/4	4 1/2
H-135	10CT	10	13	2500	JB	3 9/16	3 1/16	3 7/8	6
H-136	14, 12, 11CT	10	14	2500	LA	4 5/16	3 11/16	5 9/16	11

The wide variety of "H" series filament transformers listed cover virtually every military and industrial need. Conservative design provides maximum reliability through low temperature rise and high insulation safety factor. Except for H-128 and H-129 which have terminals opposite mounting, all units are in MIL cases with rugged internal construction, stainless steel studs. Regulation has been a fundamental design consideration to provide for the diverse applications in which these units may be employed.



(Refer to Page N-749 for UTC Prices)

HERMETIC AUDIO COMPONENTS

Hermetically sealed to MIL-T-27A Specs.

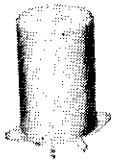
For twenty-five years UTC has been the largest supplier of transformer components for military applications, to customer specifications. Listed below are a number of types, to MIL-T-27A specifications, which are now catalogued as UTC stock items. All units employ glass bead headers or terminals. For **printed circuit use**, wire terminals on glass header units can be straightened out without injury. Straight wire terminals available on production orders as well as flat (⅞ x 23/32 x 5/16) case for SM units.

The **frequency response ratings** are based on military requirements. Actually, most of the units that do not carry DC are appreciably better in response than the range shown. For example; H-1, H-3, H-5, H-8 are within 2db from 30 to 20,000 cycles.

The **level ratings** are maximum level for reasonable distortion at the lowest frequency specified. For higher frequencies considerably higher levels are permissible. For example, the H-3 will handle +21dbm at 400 cycles.

The **impedance ratings** are listed in standard manner. Transformers can be used for applications differing considerably from those shown, keeping in mind that impedance ratio is constant. Lower source impedance will improve response and level ratings . . . higher source impedance reduces them. Units may also be used reversed, input to secondary.

MINIATURE AUDIO UNITS . . . RC-25 CASE

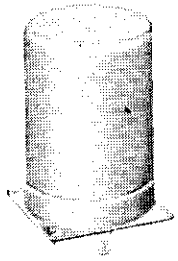


RC-25 CASE

Length ..... 1 1/32"
Width 9/16
Height ..... 1 9/16"
Mounting (slot centers) 1⅛ to 1 7/32"
Screws ..... 4-40 Fil.
Cutout ..... ⅞ Dia.
Unit Weight ..... 1.5 oz.

Type No	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	Unbal. DC in Pri. MA	Response ± 2 db (Cyc.)	Max. level dbm
H-1	Mike, pickup, line to grid	TF4RX10YY	50, 200CT, 500CT*	50,000	0	50-10,000	+ 5
H-2	Mike to grid	TF4RX11YY	82	135,000	50	250-8,000	+18
H-3	Single plate to single grid,	TF4RX15YY	15,000	60,000	0	50-10,000	+ 6
H-4	Single plate to single grid, DC in Pri.	TF4RX15YY	15,000	60,000	4	200-10,000	+14
H-5	Single plate to P.P. grids	TF4RX15YY	15,000	95,000 CT	0	50-10,000	+ 5
H-6	Single plate to P.P. grids, DC in Pri.	TF4RX15YY	15,000	95,000 split	4	200-10,000	+11
H-7	Single or P.P. plates to line	TF4RX13YY	20,000 CT	150/600	4	200-10,000	+21
H-8	Mixing and matching	TF4RX16YY	150/600	600 CT	0	50-10,000	+ 8
H-9*	82/41:1 input to grid	TF4RX10YY	150/600	1 meg.	0	200-3,000 (4 db.)	+10
H-10	10:1 single plate to 1 grid.	TF4RX15YY	10,000	1 meg.	0	200-3,000 (4 db.)	+10
H-11	Reactor	TF4RX20YY	300 Henries-0 DC, 50 Henries-3 Ma. DC, 6,000 Ohms.				
H-12	Mike, line to PP grids	TF4RX10YY	50,200 CT, 500 CT*	50,000 CT	0	50-10,000	+ 5
H-13	Trasistor interstage	TF4RX13YY	10K/2.5K, Split	2K/.5K split	4	100-10,000	+20
H-14	Transistor interstage	TF4RX13YY	10K/2.5K, Split	4K/1K split	4	100-10,000	+20
H-15	Transistor to line	TF4RX13YY	1,500 CT	500/125 split	8	100-10,000	+20
H-16	Transistor to V.C.	TF4RX13YY	2,000 CT 4,000 CT	8 16	4	100-10,000	+20

COMPACT AUDIO UNITS . . . RC-50 CASE



C-50 CASE

Length 1 5/8
Width 1 5/8
Height 2 1/16
Mounting 1 1/16
Screws ..... #6-32
Cutout ..... 1½ Dia.
Unit Weight ..... 8 oz.

Type No.	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	Unbal. DC in Pri. MA	Response ± 2 db (Cyc.)	Max. level dbm
H-19A	Line to grid, Balanced, 1:14 ratio. Multiple hi-permalloy (75 DB) shielding	TF4RX10YY	250 CT 500 CT	50,000 100,000 CT	0	30-20,000	+ 6
H-20	Single plate to 2 grids, can also be used for P.P. plates	TF4RX15YY	15,000 split	80,000 split	0	30-20,000	+12
H-21	Single plate to P.P. grids, DC in Pri.	TF4RX15YY	15,000	80,000 split	8	100-20,000	+23
H-22	Single plate to multiple line	TF4RX13YY	15,000	50/200, 125/500**	8	50-20,000	+23
H-23	P.P. plates to multiple line	TF4RX13YY	30,000 split	50/200, 125/500**	8 BAL.	30-20,000	+19
H-24	Reactor	TF4RX20YY	450 Hys.-0 DC, 250 Hys.-5 Ma. DC, 6000 ohms 65 Hys.-10 Ma. DC, 1500 ohms				
H-25	Mixing of transistors to line	TF4RX17YY	500 CT	500/125 split	20	40-10,000	+30
H-26	Transistor interstage	TF4RX13YY	10,000/2,500 (split)	2,000/500 split	8	40-10,000	+30
H-27	Transistor to V.C.	TF4RX17YY	500 CT	16/4 split	20	40-10,000	+30
H-280	Transistor driver	TF4RX17YY	200 CT	400 Split	20	40-20,000	+30
H-281	Transistor to V.C.	TF4RX17YY	48 CT	16, 8, 4	750 BAL	40-20,000	5 WATTS
H-282	Transistor to V.C. RC-62 case, Pg. 29.	TF4RX17YY	20 CT	16, 8, 4	1000 BAL	40-20,000	10 WATTS
H-290	Chopper transf., electrost. & triple mag. shld.	TF4RX10YY	2,500 e.s. (½ Pri.)	100 K ratio 1:6.4	0	60-400	+ 5
H-291	Chopper transf., higher gain, 20 db better shielding. RC-62 case, Pg. 29.	TF4RX10YY	2,000/500 e.s. (½ Pri.)	312K ratio 1:25/12.5	0	60-400	+10

SUBMINIATURE AUDIO UNITS . . . SM CASE

SM CASE

Length 11/16
Width ..... ½
Height 23/32
Screw ..... 4-40 Fil.
Unit Weight ..... .8 oz.

Type No.	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	Unbal. DC in Pri. MA	Response ± 2 db (Cyc.)	Max. level dbm
H-30	Input to grid	TF4RX10YY	50***	62,500	0	150-10,000	+13
H-31	Single plate to 1 grid, 3:1	TF4RX15YY	10,000	90,000	0	300-10,000	+13
H-32	Single plate to line	TF4RX13YY	10,000****	200	3	300-10,000	+13
H-33	Single plate to low imp.	TF4RX13YY	30,000	50	1	300-10,000	+15
H-35	Reactor	TF4RX20YY	100 Henries-0 DC, 50 Henries-1 Ma. DC, 4,400 ohms.				
H-36	Transistor interstage	TF4RX15YY	25,000 (DCR800)	1,000 (DCR110)	.5	300-10,000	+10
H-37A	Transistor output	TF4RX15YY	500 (DCR50) CT	50 (DCR5)	3.5	300-10,000	+15
H-38	Transistor interstage	TF4RX13YY	10,000 CT (DCR600)	1,200 CT	2	300-10,000	+15
H-39	Transistor interstage	TF4RX13YY	10,000 CT (DCR600)	2,000 CT	2	300-10,000	+15
H-40A	Transistor output	TF4RX17YY	500 CT (DCR26)	600 CT	10	300-10,000	+15
H-41A	Transistor output	TF4RX13YY	1,500 CT (DCR71)	600 CT	7	300-10,000	+15

* 200 ohm termination can be used for 150 ohms or 250 ohms. 500 ohm termination can be used for 600 ohms
** 200 ohm termination can be used for 150 ohms or 250 ohms, 125/500 ohm termination for 150/600 ohms.
*** Can be used with higher source impedances, with corresponding reduction in frequency range. With 200 ohm source, impedance becomes 250,000 ohms . . . loaded response is –4 db at 300 cycles.
**** Can be used for 500 ohm load . . . 25,000 ohm primary impedance . . . 1.5 Ma. DC.

(Refer to Page N-749 for UTC Prices)

UTC DO-T and DI-T TRANSFORMERS

REVOLUTIONARY TRANSISTOR* TRANSFORMERS, hermetically sealed to MIL-T-27A Specs.

UTC UNITED

To fully appreciate DO-T transistor transformers, the curves below indicate their performance compared to that of similar size units now on the market. DI-T transformers are still smaller in size. Power rating and other characteristics are identical to DO-T, but low frequency response (3 db down point) is 30% higher in frequency.

Units can be used for different impedances than those shown, keeping in mind that impedance ratio is constant. Lower source impedance will improve response and level ratings . . . higher source will reduce them. Units may be used reversed, input to secondary. Available with leads at both ends on production order. If clip mounted, use Augat #6009-8A clip.

DO-T No.	MIL Type	Application	Pri. Imp.	D.C. Ma.‡ in Pri.	Sec. Imp.	Pri. Res.	Level Mw.	DI-T No.
DO-T1	TF4RX13YY	Interstage	20,000 30,000	.5 .5	800 1200	850	50	
DO-T2	TF4RX17YY	Output	500 600	3 3	50 60	60	100	DI-T2
DO-T3	TF4RX13YY	Output	1000 1200	3 3	50 60	115	100	DI-T3
DO-T4	TF4RX17YY	Output	600	3	3.2	60	100	
DO-T5	TF4RX13YY	Output	1200	2	3.2	115	100	
DO-T6	TF4RX13YY	Output	10,000	1	3.2	1000	100	
DO-T7	TF4RX16YY	Input	200,000	0	1000	8500	25	
DO-T8	TF4RX20YY	Reactor 3.5 Hys. @ 2 Ma. DC, 1 Hy @ 5 Ma. DC (DI-T8 is 2.5 Hy @ 2 Ma.)				630		DI-T8
DO-T9	TF4RX13YY	Output or driver	10,000 12,500	1 1	500 CT 600 CT	800	100	DI-T9
DO-T10	TF4RX13YY	Driver	10,000 12,500	1 1	1200 CT 1500 CT	800	100	DI-T10
DO-T11	TF4RX13YY	Driver	10,000 12,000	1 1	2000 CT 2500 CT	800	100	DI-T11
DO-T12	TF4RX17YY	Single or PP output	150 CT 200 CT	10 10	12 16	11	500	
DO-T13	TF4RX17YY	Single or PP output	300 CT 400 CT	7 7	12 16	20	500	
DO-T14	TF4RX17YY	Single or PP output	600 CT 800 CT	5 5	12 16	43	500	
DO-T15	TF4RX17YY	Single or PP output	800 CT 1070 CT	4 4	12 16	51	500	
DO-T16	TF4RX13YY	Single or PP output	1000 CT 1330 CT	3.5 3.5	12 16	71	500	
DO-T17	TF4RX13YY	Single or PP output	1500 CT 2000 CT	3 3	12 16	108	500	
DO-T18	TF4RX13YY	Single or PP output	7500 CT 10,000 CT	1 1	12 16	505	500	
DO-T19	TF4RX17YY	Output to line	300 CT	7	600	19	500	DI-T19
DO-T20	TF4RX17YY	Output or matching to line	500 CT	5.5	600	31	500	DI-T20
DO-T21	TF4RX17YY	Output to line	900 CT	4	600	53	500	
DO-T22	TF4RX13YY	Output to line	1500 CT	3	600	86	500	DI-T22
DO-T23	TF4RX13YY	Interstage	20,000 CT 30,000 CT	.5 .5	800 CT 1200 CT	850	100	DI-T23
DO-T24	TF4RX16YY	Input (usable for chopper service)	200,000 CT	0	1000 CT	8500	25	
DO-T25	TF4RX13YY	Interstage	10,000 CT 12,000 CT	1 1	1500 CT 1800 CT	800	100	
DO-T26	TF4RX20YY	Reactor 6 Hy. @ 2 Ma. DC, 1.5 Hy. @ 5 Ma. DC				2100		
DO-T27	TF4RX20YY	Reactor 1.25 Hy. @ 2 Ma. DC, .5 Hy. @ 11 Ma. DC				100		
DO-TSH	Drawn Hipermalloy shield and cover for DO-T's, provides 25 to 30 db shielding.							

‡DCMA shown is for single ended useage (under 5% distortion—100MW—1KC) . . . for push pull, DCMA can be any balanced value taken by .5W transistors (under 5% distortion—500MW—1KC)

High Power Rating . . . up to 100 times greater.

Excellent Response . . . twice as good at low end.

Low Distortion . . . reduced 80%.

High Efficiency . . . up to 30% better.

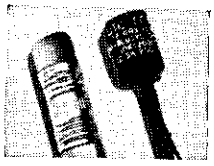
Moisture Proof . . . hermetically sealed to MIL-T-27A.

Rugged . . . completely cased.

Anchored Leads . . . will withstand 10 pound pull test.

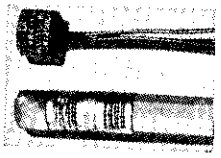
Printed Circuit Use . . . (solder melting) plastic insulated leads.

ACTUAL SIZE



DO-T CASE

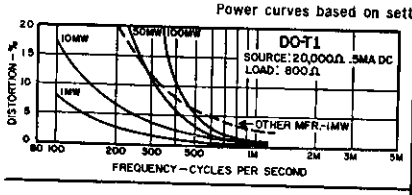
Dia. . . . 5/16"
Length . . 13/32"
Weight . . 1/10th oz.

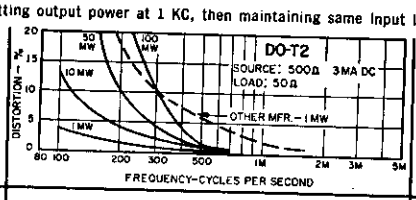


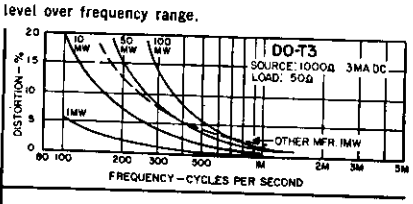
DI-T CASE

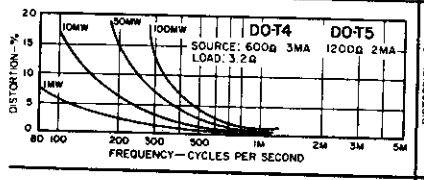
Dia. . . . . 5/16"
Length . . . 1/4"
Weight . . . .06 oz.

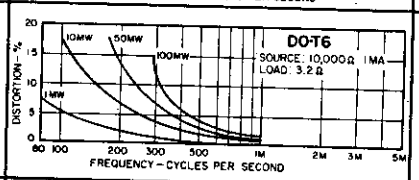
Power curves based on setting output power at 1 KC, then maintaining same input level over frequency range.

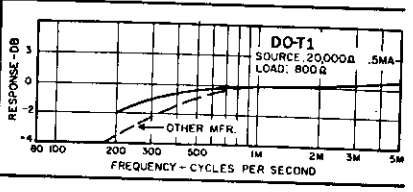


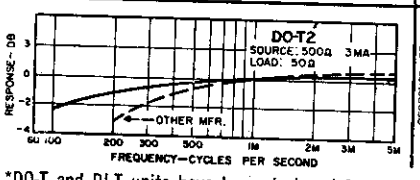


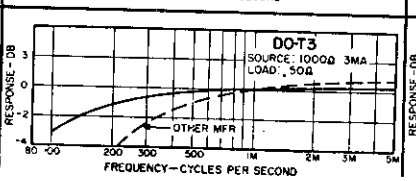


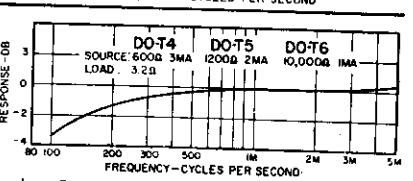












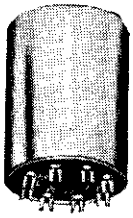
*DO-T and DI-T units have been designed for transistor application only . . . not for vacuum tube service, Pats. Pending

OUNCER AUDIO UNITS STANDARD AND PLUG-IN TYPES

Ouncer items are ideal for portable broadcast, hearing aid, aircraft, concealed service, and similar applications. High fidelity characteristics are provided, uniform within approximately 1 DB from 30 to 20,000 cycles, except for O-14, O-15, and units carrying DC which are intended for voice frequencies. Maximum level +8 dbm. ⅞" dia., 1 oz.

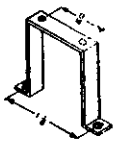
"P" series units are identical to the UTC OUNCER units but are sealed in bakelite housings with plug-in base to fit standard octal socket. While of submersion proof design, these units weigh but two ounces. Oversize pins in the base make it impossible to dislodge these units from their sockets.

OUNCER Type No.	Application	Pri. Imp.	Sec. Imp.	PLUG-IN Type No.
O-1	Mike, pickup or line to 1 grid	50, 200/250, 500/600	50,000	P-1
O-2	Mike, pickup or line to 2 grids	50, 200/250, 500/600	50,000 CT	P-2
O-3	Dynamic mike to 1 grid	7.5/30	50,000	P-3
O-4	Single plate to 1 grid	15,000	60,000	
O-5	Single plate to 1 grid, D.C. in Pri.	15,000	60,000	
O-6	Single plate to 2 grids	15,000	95,000 CT	P-6
O-7	Single plate to 2 grids, D.C. in Pri.	15,000	95,000 CT	P-7
O-8	Single plate to line	15,000	50, 200/250, 500/600	P-8
O-9	Single plate to line, D.C. in Pri.	15,000	50, 200/250, 500/600	P-9
O-10	Push pull plates to line	30,000 ohms plate to plate	50, 200/250, 500/600	P-10
O-11	Crystal mike or pick-up to line	50,000	50, 200/250, 500/600	P-11
O-12	Mixing and matching	50, 200/250	50, 200/250, 500/600	P-12
O-13	Reactor, 300 Hys.—no D.C.; 50 Hys.—3 MA. D.C., 6000 ohms			
O-14	50:1 mike or line to 1 grid	200	½ megohm	
O-15	10:1 single plate to 1 grid	15,000	1 megohm	P-15
O-16	Mike or line to grid	250 C.T.	50,000	
This transformer provides very low hum pickup . . . employs two heavy gauge hipermalloy shields plus orientable mounting. Primary centertap is balanced to 1%. Can be used for 150, 200, 250, 500, or 600 ohm sources . . . 200:1 impedance ratio.				
Same as O-16 but with nine pin plug in socket. 1⅝ Dia. x 2¾ high, 4 oz.				P-16
O-17	Hipermalloy shield, slip fit over ouncer, 1" O.D., provides 25 db shielding.			
O-18	Transistor interstage	10,000/2,500 (split)	2,000/500 (split)	
O-19	Transistor interstage	10,000/2,500 (split)	4,000/1,000 (split)	
O-20	Transistor to line	1,500 CT	500/125 (split)	
O-21	Transistor to voice coil Imp. ratio 250:1	2,000 CT 4,000 CT	8 16	



OUNCER CASE

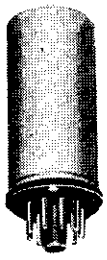
Dia. ..... ⅞"
Ht. ..... 1 9/16"
Mtg. ..... 1 1/16"
Scr. 2-56
Wt. ..... 1 oz.



Ouncer chassis mount bracket available on production orders

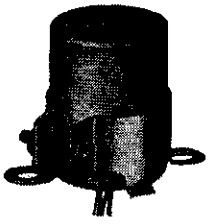
PLUG-IN CASE

Dia. ..... 1 13/32"
Ht. ..... 1 15/32"
Skt. ..... St. Oct.
Wt. ..... 2 oz.



P-16 CASE

Dia. 1 3/16
Ht. 2¾
Wt. ..... 4 oz.



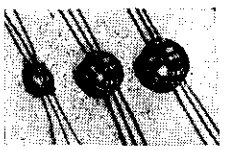
O-16 CASE

Dia. ..... 1 1/16"
Ht. ..... 1½"
Mtg. ..... 1½"
Scr. 6-32
Wt. ..... 3 oz.
Clamp — 1 5/16" x 1⅞"

MINIATURE WIDE APPLICATION PULSE TRANSFORMERS

Hermetically sealed to MIL-T-27A Specs. . . . all units MIL type TF5SX36ZZ

UTC miniature, wound core, pulse transformers are precision, high reliability units, hermetically sealed by vacuum molding and suited for service from —70° C. to + 130° C. Wound core structure provides excellent temperature stability (unlike ferrite). Designs are **high inductance type** to provide **minimum of droop** and assure **true pulse width,** as indicated on chart below. If used for coupling circuit where **minimum rise time** is important, use next lowest type number. Rise time will be that listed for this lower type number . . . droop will be that listed multiplied by ratio of actual pulse width to value listed for this type number. block oscillator data listed is obtained in **standard test circuit** shown. Coupling data was obtained with H. P. 212A generator (correlated for H-55, 56, 57) and source/load impedances shown. Three windings, 1; 1; 1.



	APPROX. DCR, OHMS			BLOCKING OSCILLATOR PULSE					COUPLING CIRCUIT CHARACTERISTICS							DIMENSIONS		
Type No.	1-2	3-4	4-5	Width μ Sec.	Rise Time	% Over Shoot	Droop %	% Back Swing	P. Width μ Sec.	Volts Out	Rise Time	% Over Shoot	Droop %	% Back Swing	Imp. in, out, ohms	L In.	W In.	Wt. Grams
H-45	3	3.5	4	.05	.022	0	20	10	.05	17	.01	20	0	35	250	⅜	⅜	1
H-46	5.5	6.5	7	.10	.024	0	25	10	.10	19	.01	30	10	50	250	⅜	⅜	1
H-47	3.7	4.0	4	.20	.026	0	25	8	.20	18	.01	30	15	65	500	9/16	⅝	4
H-48	5.5	5.8	6	.50	.03	0	20	5	.50	20	.01	30	20	65	500	9/16	⅝	4
H-49	8	8.5	9	1	.04	0	20	10	1	24	.02	15	15	65	500	9/16	⅝	4
H-50	20	21	22	2	.05	0	20	10	2	27	.05	10	15	35	500	9/16	⅝	4
H-51	28	31	33	3	.10	1	20	8	3	26	.07	10	10	35	500	9/16	⅝	4
H-52	36	41	44	5	.13	1	25	8	5	23	.15	10	10	45	1000	9/16	⅝	4
H-53	37	44	49	7	.28	0	25	8	7	24	.20	10	10	50	1000	⅝	⅝	6
H-54	50	58	67	10	.30	0	20	8	10	24	.25	10	10	50	1000	⅝	⅝	6
H-55	78	96	112	16	.75	0	20	10	16	23	.40	5	15	20	1000	⅝	⅝	6
H-56	93	116	138	20	1.25	0	25	10	20	23	.6	5	10	10	1000	⅝	⅝	6
H-57	104	135	165	25	2.0	0	30	10	25	24	1.5	5	10	10	1000	⅝	⅝	6
H-58	Pulse transformer kit. Consists of one of each of the above units in a partitioned plastic case. Ideal for the laboratory.																	

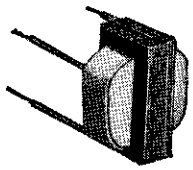
(Refer to Page N-749 for UTC Prices)

SUB-SUBOUNCER UNITS
FOR HEARING AIDS AND ULTRA-MINIATURE EQUIPMENT

UTC-Sub-Sub-Ouncer units fulfill an essential requirement for ultra-miniaturized components having high efficiency and wide frequency response. Through the use of special nickel iron core materials and winding methods, these miniature units have superior performance and dependability characteristics. The coils employ automatic layer windings of double Formex wire . . . in a molded Nylon bobbin. All insulation is of cellulose acetate. Four inch color coded flexible leads are employed, securely anchored mechanically. No mounting facilities are provided, since this would preclude maximum flexibility in location. Units are vacuum processed and double (water proof) sealed. The curves below indicate the excellent frequency response available.

Type	Application	Max. Level dbm	Pri. Imp. ohms	Unbal. MA D.C. in Pri.	Sec. Imp. ohms	Pri. Res. ohms	Sec. Res. ohms
*SSO-1	Input	+ 7	200 50	0	250,000 62,500	13.5	3600
SSO-2	Interstage/3:1	+15	10,000	0-.25	90,000	710	3150
*SSO-3	Plate to Line	+20	10,000 25,000	3 1.5	200 500	2500	34
SSO-4	Output	+20	30,000	1.0	50	2875	4.6
SSO-5	Reactor 50 HY at 1 mil. D.C. 4400 ohms D.C. Res.						
SSO-6	Output	+20	100,000	.5	60	3500	3.3
*SSO-7	Transistor Interstage	+20	20,000 30,000	.5 .5	800 1,200	800	110
SSO-8	Transistor to PP Sec.	+20	10,000	1	2,000 ct.	1200	45
SSO-9	Transistor to V.C.	+20	10,000	2	16	800	2.7
SSO-10	Transistor to V.C.	+20	10,000	2	3.2	800	.65
*SSO-11	Transistor Output	+20	500 600	3.5 3.5	50 60	50	5
*SSO-12	Transistor Output	+20	1,000 1,200	3 3	50 60	90	5
SSO-13	Crystal to Transistor	+ 7	200,000	0	1,000	4000	190
*SSO-14	Transistor Interstage	+20	10,000 ct. 25,000 ct.	2 1	200 ct. 500 ct.	650	22
*SSO-15	Transistor Interstage	+20	20,000 ct. 30,000 ct.	1 1	800 ct. 1,200 ct.	800	110

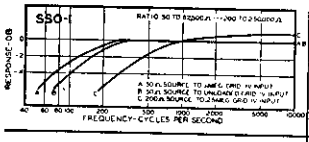
*Impedance ratio is fixed, 1:1250 for SSO-1, etc. Any impedance between the values shown may be employed.

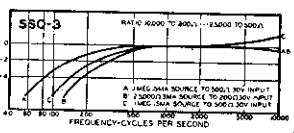


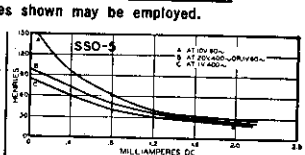
SUB-SUBOUNCER UNIT

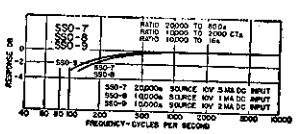
Dimensions.....7/16" x 3/4" x 43/64"

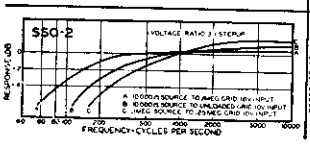
Weight .....02 lb.

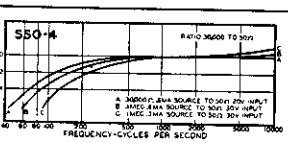


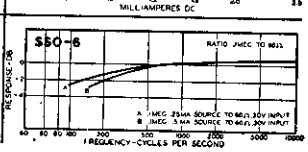


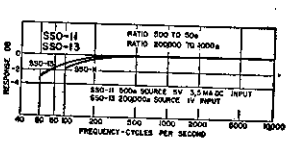










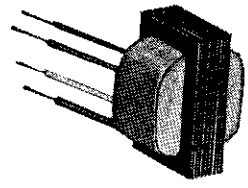


SUBOUNCER UNITS

UTC Sub-Ouncer units have exceptionally high efficiency and frequency range in their miniature size, will handle somewhat higher level than SSO units above. The constructional details are identical to those of the Sub-Sub-Ouncer units. Available hermetically sealed on production orders (SOM case 11/16 x 13/16 x 1 1/8)

Type	Application	Max. Level dbm	Pri. Imp. ohms	Unbal. MA D.C. in Pri.	Sec. Imp. ohms	Pri. Res. ohms	Sec. Res. ohms
*SO-1	Input	+10	200 50	0	250,000 62,500	16	2500
SO-2	Interstage/3:1	+20	10,000	0-.25	90,000	215	1850
*SO-3	Plate to Line	+23	10,000 25,000	3 1.5	200 500	1225	30
SO-4	Output	+23	30,000	1.0	50	1850	3.8
SO-5	Reactor 50 HY at 1 mil. D.C. 2675 ohms D.C. Res.						
SO-6	Output	+23	100,000	.5	60	3400	3.7
*SO-7	Transistor Interstage	+23	20,000 30,000	.5 .5	800 1,200	450	32
SO-8	Transistor to PP Sec.	+23	10,000	1	2,000 ct.	1,000	40
SO-9	PP Transistor to V.C.	+24	500 ct.	0	3.2	15	.35
*SO-10	Transistor output to voice coil	+24	2,000 ct. 4,000 ct.	4 2	8 16	290	2

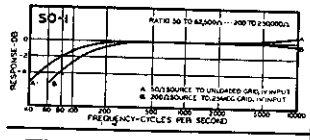
*Impedance ratio is fixed, 1:1250 for SO-1, etc. Any impedance between the values shown may be employed.

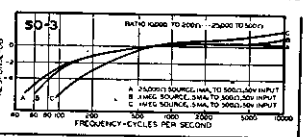


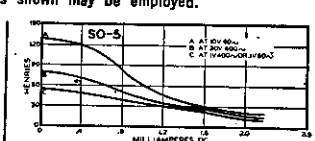
SUBOUNCER UNIT

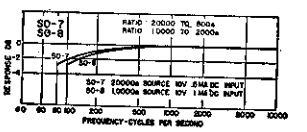
Dimensions.....1 9/32" x 4 3/4" x 7/8"

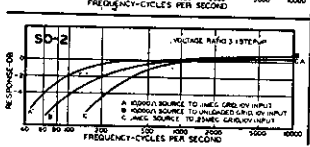
Weight .....03 lb.

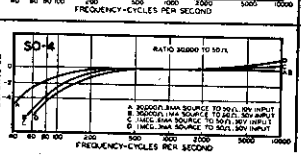


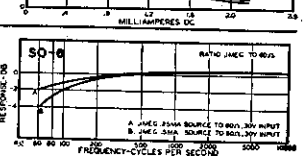


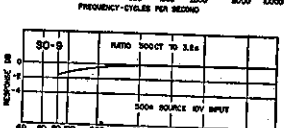








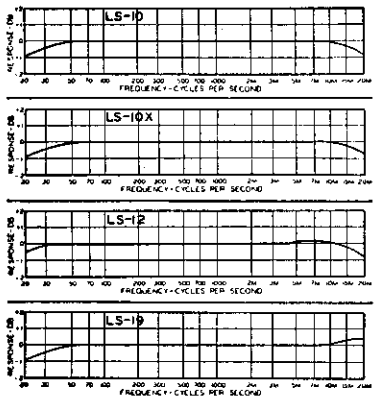




(Refer to Page N-749 for UTC Prices)

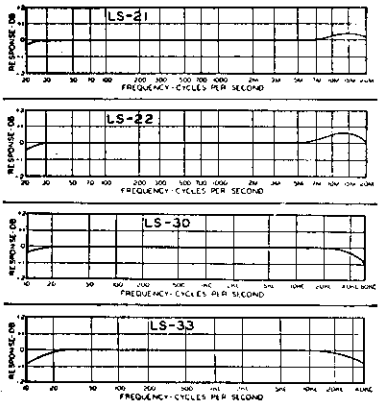
LINEAR STANDARD AUDIO TRANSFORMERS

The ever increasing use of wide range equipment for broadcast service has reached the point where the major limiting factor is the frequency range of the transformers employed. UTC Linear Standard components represent the closest approach to the ideal transformer from the standpoint of uniform frequency response, low wave form distortion, high efficiency, thorough shielding, and dependability.



LOW IMPEDANCE TO GRID TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	± 1 db from	Max. Level dbm	Relative * hum	Unbal. DC in prim'y	Case No.
LS-10	Low impedance mike, pickup, or multiple line to grid	50, 125/150, 200, 250, 333, 500/600 ohms	60,000 ohms in two sections	20-20,000	+19	−74 DB	.5 MA	LS-1
LS-10X	As above	As above	50,000 ohms	20-20,000	+17	−92 DB-Q	.5 MA	LS-1
LS-12	Low impedance mike, pickup or multiple line to push pull grids	50, 125/150, 200, 250, 333, 500/600 ohms	120,000 ohms overall, in two sections	20-20,000	+19	−74 DB	.5 MA	LS-1
LS-12X	As above	As above	80,000 ohms overall, split	20-20,000	+17	−92 DB-Q	.5 MA	LS-1
LS-14X	As above	As above	50,000 ohms	20-20,000	+17	−92 DB-Q	.5 MA	LS-1
LS-15X	Three isolated lines or pads to one or two grids	30, 50, 200, 250 ohms each primary	60,000 ohms overall, in two sections	20-20,000	+17	−92 DB-Q	.5 MA	LS-1
LS-18	High level multiple line to push pull grids	50, 125/150, 200, 250, 333, 500/600 ohms	50,000 ohms overall, in two sections	20-20,000	+28	−50 DB	.5 MA	LS-2
LS-26	Bridging line to single or push pull grids	5,000 ohms	60,000 ohms in two sections	15-20,000	+23	−74 DB	0 MA	LS-1

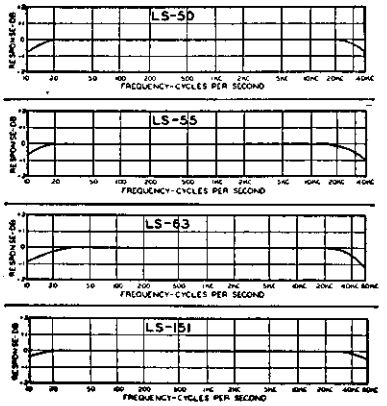


MIXING TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	± 1 db from	Max. Level dbm	Relative * hum	Unbal. DC in prim'y	Case No.
LS-30	Mixing, low impedance mike, pickup, or multiple line to multiple line	50, 125/150, 200, 250, 333, 500/600 ohms	50, 125/150, 200, 250, 333, 500/600 ohms	7-50,000	+23	−74 DB	.5 MA	LS-1
LS-30X	As above	As above	As above	20-20,000	+20	−92 DB-Q	.3 MA	LS-1
LS-31	Three isolated lines or pads to multiple line	30, 50, 200, 250 ohms each primary	50, 125/150, 200, 250, 333, 500/600 ohms	20-20,000	+23	−74 DB	.5 MA	LS-1
LS-32	Mixing, low impedance mike, pickup or parallel mixer to multiple line	2.5, 5.5, 10, 15, 22, 30, 38, 60 ohms	50, 125/150, 200, 250, 333, 500/600 ohms	20-20,000	+23	−74 DB	.5 MA	LS-1

INTERSTAGE AUDIO TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	± 1 db from	Max. Level dbm	Relative * hum	Unbal. DC in prim'y	Case No.
LS-19	Single plate to push pull grids like 2A3, 6L6, 5881 Split secondary	15,000 ohms	95,000 ohms 1.25:1 each side	20-20,000	+20	−50 DB	0 MA	LS-1
LS-21	Single plate to push pull grids. Split pri. and sec.	15,000 ohms	135,000 ohms; 3:1 overall	10-20,000	+20	−74 DB	0 MA	LS-1
LS-40	Single plate to push pull grids. Split secondary	15,000 ohms	135,000 ohms; 3:1 overall	30-20,000	+20	−74 DB	8 MA	LS-1
LS-25	Push pull plates to push pull grids. Medium level. Split primary and sec.	30,000 ohms plate to plate	50,000 ohms; turn ratio 1.3:1 overall	20-20,000	+23	−74 DB	1 MA	LS-1



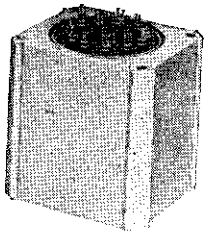
PLATE, CRYSTAL, PHOTOCELL, AND BRIDGING TO LINE TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	± 1 db from	Max. Level dbm	Relative * hum	Unbal. DC in prim'y	Case No.
LS-27	Single plate to multiple line	15,000 ohms	50, 125/150, 200, 250, 333, 500/600	30-15,000 cycles	+23	−74 DB	8 MA	LS-1
LS-50	Single plate to multiple line	15,000 ohms	50, 125/150, 200, 250, 333, 500/600	10-40,000	+23	−74 DB	0 MA	LS-1
LS-51	Push pull low level plates to multiple line	30,000 ohms plate to plate	50, 125/150, 200, 250, 333, 500/600	10-40,000	+24	−74 DB	1 MA	LS-1
LS-150	Bridging from 50 to 500 ohm line to line	4,000 ohms, bridging	50, 125/150, 200, 250, 333, 500/600	7-50,000	+23	−74 DB	1 MA	LS-1
LS-151	Bridging from 50 to 500 ohm line to line	16,000 ohms, bridging	50, 125/150, 200, 250, 333, 500/600	7-50,000	+26	−74 DB	1 MA	LS-1

The values of unbalanced DC shown will effect approximately 1.5 DB loss at 30 cycles.
* Comparison of hum balanced unit with shielding to normal uncased type.
Q Multiple alloy magnetic shield.

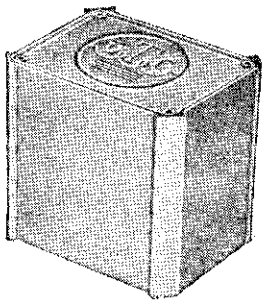
(Refer to Page N-749 for UTC Prices)

LINEAR STANDARD



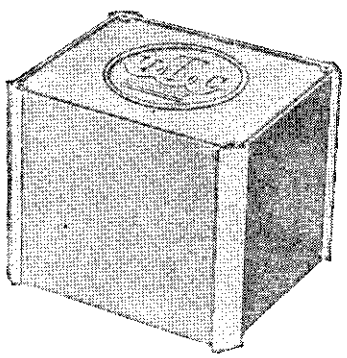
LS-1 CASE

Length	3⅛"
Width	2⅝"
Height	3¼"
Mounting	1 15/16" x 2 7/16"
Screws	6-32
Cutout	1⅞" dia.
Unit Weight	3 lbs.



LS-2 CASE

Length	4 7/16"
Width	3½"
Height	4 3/16"
Mounting	2 1/16" x 3 1/16"
Screws	8-32
Cutout	2¾" dia.
Unit Weight	7.5 lbs.



LS-3 CASE

Length	5 13/16"
Width	5"
Height	4 1/16"
Mounting	4 7/16" x 5½"
Screws	10-24
Cutout	3¾" dia.
Unit Weight	15 lbs.

HYBRID AND REPEAT COILS

Type No.	Application	Pri. and Sec. Impedances	± 1 db from	Max. Level dbm	Relative * hum	Max. Unbal. DC in Pri.	Case No.
LS-140	Line to line for isolating balanced and unbalanced circuits; balanced for maximum reduction cross talk (70 DB)	500/600 ohms split 500/600 ohms split	30-20,000	+18	−92 DB-Q	0 MA	LS-1
LS-141	Three sets of balanced windings for hybrid service, centertapped	500/600 ohms 500/600 ohms	30-15,000	+18	−74 DB	0 MA	LS-1

DRIVER TRANSFORMERS

Type No.	Application	Primary Impedance	Refl. Sec. Impedance	± 1 db from	Max. Level	Max. Unbal. DC in Pri.	Case No.
LS-6	Driver, push pull 2A3's, etc., to push pull 845 or 211D grids	5,000 ohms plate to plate	2:25 primary impedance; turns ratio 1.5:1 overall	20-20,000	15 watts	5 MA	LS-2
LS-47	Driver from push pull 2A3's, or similar to class B 838's, 805's, or ZB120's	5,000 ohms plate to plate	.1 pri. impedance turns ratio, Pri./½ Sec. 3.2:1	20-20,000	20 watts	5 MA	LS-2
LS-48	Driver transformer push pull 845's to 805 grids in class B	12,000 ohms plate to plate	.038 pri. impedance turns ratio, Pri./½ Sec. 5.1:1	20-20,000	40 watts	15 MA	LS-3

HIGH LEVEL MATCHING TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	± 1 db from	Max. Level	Case No.
LS-33	High level line matching	50, 125, 200, 250, 333, 500/600 ohms	1.2, 2.5, 5, 7.5 10, 15, 20, 30, 50 125, 200, 250, 333, 500/600	10-40,000	20 watts	LS-2
LS-34	High level line matching	50, 125, 200, 250, 333, 500/600 ohms	1.2, 2.5, 5, 7.5 10, 15, 20, 30, 50, 125, 200, 250, 333, 500/600	10-40,000	40 watts	LS-3

OUTPUT TRANSFORMERS TO LINE AND VOICE COIL

Type No.	Primary will match following typical tubes	Primary Impedance	Secondary Impedance	± 1 db from	Max. Level	Case No.
LS-52	Push pull 6AQ5, 6V6, 6L6, 5881	8,000 ohms	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	7-50,000	20 watts	LS-2
LS-54	Same as above	8,000 ohms	30, 20, 15, 10 7.5, 5, 2.5, 1.2	7-50,000	20 watts	LS-2
LS-55	Push pull 2A3's, 300B, 6L6's, 6AS7G, 6080, 350B	5,000 ohms plate to plate and 3,000 ohms plate to plate	500, 333, 250 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	7-50,000	20 watts	LS-2
LS-57	Same as above	5,000 ohms plate to plate and 3,000 ohms plate to plate	30, 20, 15, 10, 7.5, 5, 2.5, 1.2	7-50,000	20 watts	LS-2
LS-58	Push pull parallel as above.	2,500 ohms plate to plate and 1,500 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	10-50,000	40 watts	LS-3
LS-61	Push pull triode: 6AS7G, 6080, 6L6, 5881, KT-66, 807, 1614	10,000 ohms plate to plate and 6,000 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	7-50,000	20 watts	LS-2
LS-63	Same as above	10,000 ohms plate to plate and 6,000 ohms plate to plate	30, 20, 15, 10 7.5, 5, 2.5, 1.2	7-50,000	20 watts	LS-2
LS-6L1	Self bias push pull 6L6's, 5881, KT-66, 6146 triode, 6159 triode	9,000 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	7-50,000	30 watts	LS-3
LS-6L4	Push pull 6146, 6159, 6L6's fixed bias or push pull parallel 6L6's self bias	4,500 ohms plate to plate and 3,800 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	12-50,000	55 watts	LS-3
LS-35	EL-34 in AB-feedback	5,000 ohms CT 43% screen taps	4, 8, 16	7-50,000	35 watts	LS-3
LS-65	6550's in AB_1 feedback	3,300 ohms CT 40% screen taps	4, 8, 16	7-50,000	60 watts	LS-3

The values of unbalanced DC shown will effect approximately 1.5 DB loss at 30 cycles.
* Comparison of hum balanced unit with shielding to normal uncased type.
Q Multiple alloy magnetic shield.

(Refer to Page N-749 for UTC Prices)

HIPERM ALLOY TRANSFORMERS

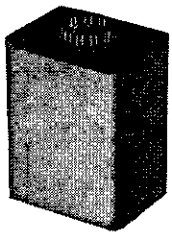
The UTC Hiperm alloy audio and power transformers are specifically designed for portable and compact service. While light in weight, neither dependability nor fidelity has been sacrificed. The frequency characteristic of the Hiperm alloy audio units is uniform from 30 to 20,000 cycles. They incorporate a Hiperm-alloy nickel iron core and hum balanced coil structure. The rugged die cast case is of high conductivity alloy finished in grey, arranged for mounting with the terminals either up or down. DC in Prim'y shown is maximum unbalanced.

LOW IMPEDANCE TO GRID AND MIXING TRANSFORMERS

Type No.	Application	Primary Imp. (ohms)	Secondary Impedance	± 1 db from	Max. Level dbm	Unbal. DC in Prim'y	Case No.
HA-100	Low impedance mike, pickup, or multiple line to grid	50, 125/150, 200, 250, 333, 500/600	60,000 ohms in two sections	30-20,000	+18	.5 MA	H-1
HA-100X	Same as above but with multiple alloy shield to effect very low hum pickup				+16		H-1
HA-101	Low impedance mike, pickup, or multiple line to P.P. grids	50, 125/150, 200, 250, 333, 500/600	120,000 ohms overall, split	30-20,000	+18	.5 MA	H-1
HA-101X	As above but with multiple alloy shield to effect very low hum pickup		80,000 ohms overall, split	30-20,000	+16	.5 MA	H-1
HA-103A	Low impedance mike, pickup, or parallel mixer to grid	2.5, 5.5, 10, 15, 22, 30, 38, 60	60,000 ohms in two sections	30-20,000	+18	.5 MA	H-1
HA-108	Mixing, low impedance mike, pickup, or multiple line	50, 125/150, 200, 250, 333, 500/600	50, 125/150, 200, 250, 333, 500/600	20-50,000	+20	.5 MA	H-1
HA-108X	Same as above but with multiple alloy shield to effect very low hum pickup				+18		H-1
HA-130X	Three isolated lines or pads to one or two grids with tri-alloy internal shield	30, 50, 200, 250 each primary	60,000 ohms overall, in two sections	30-20,000	+18	.5 MA	H-1

INTERSTAGE AUDIO TRANSFORMERS

Type No.	Application	Primary Imp.	Secondary Impedance	± 1 db from	Max. Level dbm	Unbal. DC in Prim'y	Case No.
HA-104	Single plate to P.P. grids like 2A3, 6L6 (split secondary)	15,000 ohms (split)	95,000 ohms 2.5:1	30-20,000	+20	0 MA	H-1
HA-105	Single plate to single grid (split secondary)	15,000 ohms	60,000 ohms 2:1 turn ratio	30-20,000	+20	0	H-1
HA-106	Single plate to push pull grids (split secondary)	15,000 ohms (split)	135,000 ohms 3:1 ratio overall	30-20,000	+20	0	H-1
HA-107	Push pull plates to push pull grids (split primary and secondary)	30,000 ohms plate to plate	80,000 ohms 1.6:1 turn ratio overall	30-20,000	+28	.25 MA	H-2
HA-137	Push pull plates to push pull grids (split Pri. and Sec.)	30,000 ohms plate to plate	68,000 ohms 1.5:1 turn ratio	30-20,000	+20	0	H-1



TYPE H-1 CASE

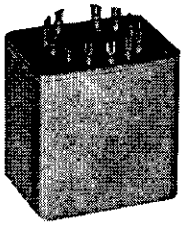
Length	2⅜"
Width	1 15/16"
Height	3⅛"
Mounting	⅜" x 1 3/16"
Screws	6-32
Cutout	1 3/16" dia.
Unit Weight	2 lbs.

PLATE AND CRYSTAL TO LINE TRANSFORMERS

Type No.	Application	Primary Imp.	Secondary Imp. ohms	± 1 db from	Max. Level dbm	Unbal. DC in Prim'y	Case No.
HA-111	Crystal microphone or pickup, to multiple line	100,000 ohms (split)	50, 125/150, 200, 250, 333, 500/600	30-20,000 measured with resistive source	+18	0	H-1
HA-113	Single plate to multiple line	15,000 ohms (split)	50, 125/150, 200, 250, 333, 500/600	30-40,000	+21	0 MA	H-1
HA-133	Single plate to multiple line (D.C. in Pri.)	15,000 ohms (split)	50, 125/150, 200, 250, 333, 500/600	30-40,000	+22	8 MA	H-1
HA-114	Push pull low level plates to multiple line	30,000 ohms plate to plate	50, 125/150, 200, 250, 333, 500/600	30-40,000	+23	1 MA	H-1

OUTPUT TRANSFORMERS

HA-134	Push pull, 6L6, or 2A3's to line	5000/9400 ohms plate to plate	50, 125/150, 200, 250, 333, 500/600	10-50,000	15 watts	H-2
HA-135	Push pull 2A3's, etc. to voice coil	3000/5000 ohms plate to plate	30, 20, 15, 10, 7.5, 5, 2.5, 1.2	10-50,000	18 watts	H-2
HA-136	5881's (KT-66's) in AB-feed back	6,600 ohms CT 43% screen taps	4, 8, 16	10-50,000	20 watts	H-2



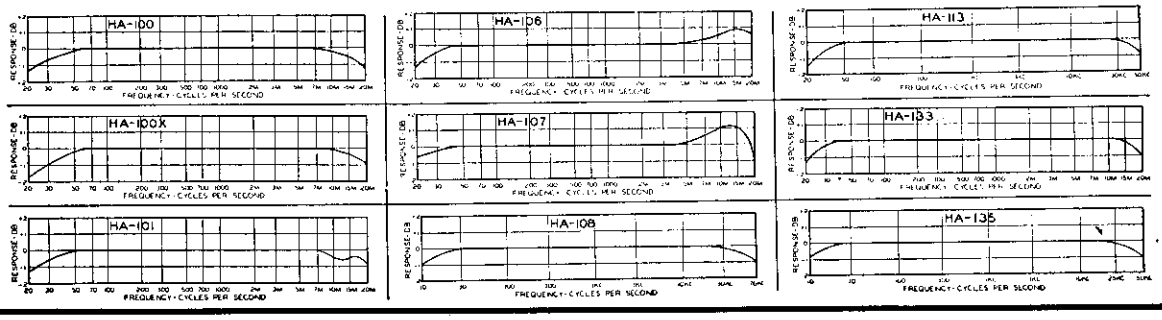
TYPE H-2 CASE

Length	3 9/16"
Width	2 13/16"
Height	3½"
Mounting	2" x 2¾"
Screws	8-32
Cutout	2 1/16" dia.
Unit Weight	5 lbs.

POWER TRANSFORMERS AND CHOKES

Type No.	Application	Primary Voltage 50/60 cycles	High Voltage	Filament Windings	Case No.
HP-122	Pre-amp. power supply using 6X4, 6X5GT rectifier	115	220-0-220 15 MA	6.3 V.C.T.-.6A 6.3 V.C.T.-1.2A	H-1
HP-123	Pre-amp. or tuner power supply using 6X4, 6X5GT rectifier	115	275-0-275 35 MA	6.3 V.C.T.-.6A 6.3 V.C.T.-2A	H-2

Type No.	Application	Inductance	DC Current	DC Resistance	Test Voltage	Case No.
HC-115	Parallel feed and filter choke	Series-400 hy Parallel-100 hy	2.5 MA 5 MA	6000 ohms 1500 ohms	1500	H-1
HC-116	Parallel feed and filter choke	Series-600 hy Parallel-150 hy	8 MA 16 MA	3400 ohms 850 ohms	1500	H-2
HC-117	Parallel feed and filter choke	Series-200 hy Parallel-40 hy	15 MA 35 MA	3200 ohms 800 ohms	1500	H-1



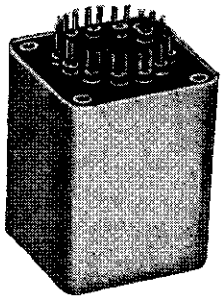
(Refer to Page N-749 for UTC Prices)

ULTRA COMPACT AUDIO UNITS

UTC UNITED

The **UTC Ultra compact** audio units are small and light in weight, ideally suited to remote amplifier and similar compact equipment. High fidelity is obtainable in all individual units, the frequency response being ± 2 DB from 30 to 20,000 cycles.

All units except those carrying DC in Primary employ a true hum balancing coil structure, which combined with a high conductivity outer case, effects good inductive shielding. The die-cast case provides for top or bottom mounting. Maximum operating level +7 DB.



TYPE A CASE

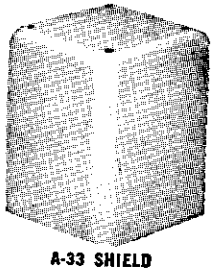
Length	1½"
Width	1½"
Height	2"
Mounting	1 13/32" sq.
Screws	4-40
Cutout	1⅜" dia.
Unit Weight	½ lb.

LOW IMPEDANCE TO GRID AND MIXING TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	± 2 db from
A-10	Low impedance mike, pickup, or multiple line to grid	50, 125/150, 200/250, 333, 500/600 ohms	50,000 ohms	20-20,000
A-11	Low impedance mike, pickup, or line to 1 or 2 grids	50, 200, 500	50,000 ohms	50-20,000 multiple alloy shield for extremely low hum pickup
A-12	Low impedance mike, pickup, or multiple line to push pull grids	50, 125/150, 200/250, 333, 500/600 ohms	80,000 ohms overall, in two sections	20-20,000
A-14	Dynamic microphone to one or two grids	30 ohms	50,000 ohms overall, in two sections	20-20,000
A-20	Mixing, low impedance mike, pickup, or multiple line to multiple line	50, 125/150, 200/250, 333, 500/600 ohms	50, 125/150, 200/250, 333, 500/600 ohms	10-50,000
A-21	Mixing, low impedance mike, pickup, or line to line	50, 200/250, 500/600	50, 200/250, 500/600	30-30,000 multiple alloy shield for extremely low hum pickup

INTERSTAGE AUDIO TRANSFORMERS

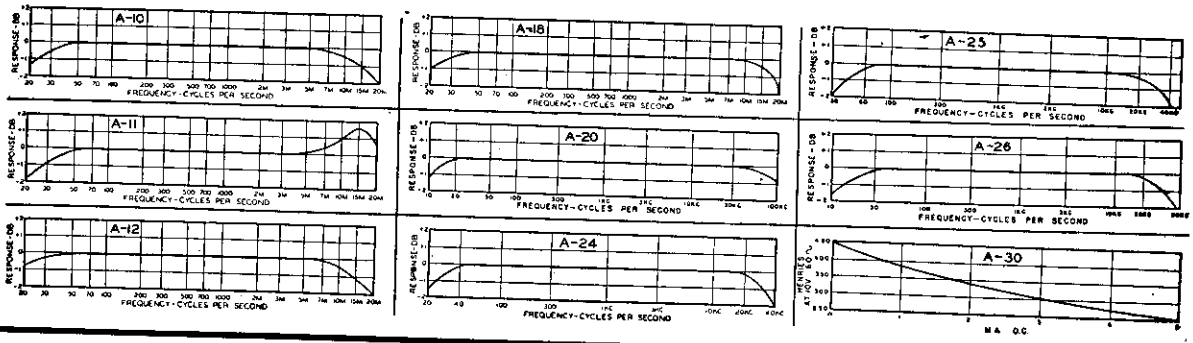
Type No.	Application	Primary Impedance	Secondary Impedance	± 2 db from
A-15	Transistor interstage Max. level +30 dbm	10,000/2,500 (split)	2,000/500 (split)	40-10,000
A-16	Single plate to single grid	15,000 ohms	60,000 ohms, 2:1 turn ratio	20-20,000
A-17	Single plate to single grid 8 MA unbalanced D.C.	As above	As above	40-20,000
A-18	Single plate to two grids. Split primary, can also be used for P.P. plates	15,000 ohms (split)	80,000 ohms overall, 2.3:1 turn ratio overall	20-20,000
A-19	Single plate to two grids 8 MA unbalanced D.C.	15,000 ohms	80,000 ohms overall, 2.3:1 turn ratio overall	40-20,000



A-33 SHIELD

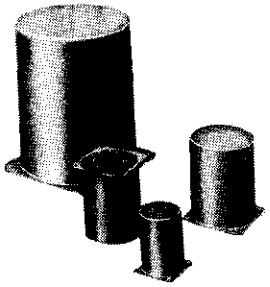
PLATE AND CRYSTAL TO LINE TRANSFORMERS

Type	Application	Primary Impedance	Secondary Impedance	± 2 db from
A-22	Transistor to line Max. level +30 dbm	500 CT	500/125 (split)	40-10,000
A-23	Transistor to voice coil Max. level +30 dbm	500 CT	16/4 (split)	40-10,000
A-24	Single plate to multiple line	15,000 ohms (split)	50, 125/150, 200/250, 333, 500/600 ohms	20-40,000
A-25	Single plate to multiple line 8 MA unbalanced D.C.	15,000 ohms	50, 125/150, 200/250, 333, 500/600 ohms	40-20,000
A-26	Push pull low level plates to multiple line	30,000 ohms plate to plate	50, 125/150, 200/250, 333, 500/600 ohms	20-40,000
A-27	Crystal microphone to multiple line	100, 000 ohms (split)	50, 125/150, 200/250, 333, 500/600 ohms	30-20,000 measured with non-inductive source
A-30	Audio choke, 250 henrys @ 5 MA 6000 ohms D.C., 65 henrys @ 10 MA 1500 ohms D.C. 450 henrys @ 0 MA			
A-32	Filter choke 60 henrys @ 15 MA 2000 ohms D.C., 15 henrys @ 30 MA 500 ohms D.C.			
A-33	Hipermalloy shield, slip fit over A case, provides approximately 20 db shielding . . . 1 19/32 x 19/32 x 2 1/32.			



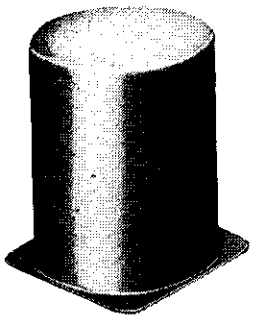
(Refer to Page N-749 for UTC Prices)

UTC COMMERCIAL GRADE COMPONENTS



The commercial grade series of transformers incorporate conservative design and rugged construction to assure dependability under continuous service operation in industrial and commercial grade communication equipment. These units are mounted in uniform drawn cases finished in light grey enamel, and intended for chassis mounting. All items are poured with special sealing compound in addition to vacuum impregnation of coil structures.

CG-134, 135 and 136 are of the hum-bucking type to assure low hum pick-up. All audio components are linear ±1½ DB from 40 to 10,000 cycles (no unbalanced D.C.), except CVL and CVM units . . . 40 to 6000 cycles. Parallel feed low level interstage units with 50,000 ohms and .25 mfd. 200 ohm windings on input transformers are balanced and may be used for 150 to 250 ohm circuits.



INPUT, INTERSTAGE, MIXING AND LOW LEVEL OUTPUT TRANSFORMERS

Type No.	Application	Primary Impedance Ohms	Max. Level dbm	Secondary Impedance Ohms	Case No.
CG-131	1 plate to 1 grid	15,000	+28	135,000 3:1 ratio	RC-50
CG-132	1 plate to 2 grids	15,000	+30	135,000 C.T. 3:1 ratio overall	RC-62
CG-133	2 plates to 2 grids	30,000 P to P	+32	80,000 overall 1.6:1 ratio ovarall	RC-75
CG-134	Line to 1 grid hum-bucking	50, 200, 500	+30	80,000	RC-50
CG-135	Line to 2 grids hum-bucking	50, 200, 500	+30	120,000 overall	RC-50
CG-235	Line to 1 or 2 grids, hum-bucking; multiple alloy shielded for low hum pickup	50, 200, 500 ohms	+28	80,000 overall	RC-75
CG-136	Single plate and low impedance mike or line to 1 or 2 grids hum-bucking	15,000, 50, 200	+30	80,000 overall	RC-62
CG-137	Mixing	50, 200, 500	+28	50, 200, 500	RC-50
CG-140	Triode plate to line	15,000	+30	50, 200, 500	RC-50
CG-141	PP triode plates to line	30,000 P to P	+32	50, 200, 500	RC-50
CG-233	PP 6C5, 12AU7, similar triodes to AB 45's, 2A3's, 6L6's, etc.	30,000 P to P	+35	25,000 overall .9:1 ratio overall	RC-87
CG-333	PP 6C5, 12AU7, similar triodes to fixed bias 6L6's	30,000 P to P	+35	5,000 overall 4:1 ratio overall	RC-87
CG-433	PP 45, 2A3, similar tubes to fixed bias 2 or 4 6L6's	5,000 P to P	10W.	1,250 overall .5:1 ratio overall	RC-100

ULTRASONIC TRANSFORMERS

Frequency Range 10 KC to 50 KC

Type No.	Application	Pri. Imp. PP Ohms	Max. Watts	Sec. Imp. Ohms	Case No.
CGU-1	Driver, PP 5881's to PP 6156's	7000	25	4150 G-G	RC-62
CGU-2	Driver, PP 6550's to PP 5868's	5000	100	2400 G-G	RC-62
CGU-3	Output, PP 6550's	5000	100	300/170/75/18.75	RC-62
CGU-4	Output, PP 6155's, 4-125's	7200	300	300/170/75/18.75	RC-112 4⅝ high
CGU-5	Output, PP 6155's, 4-125's	7200	300	30/17/7.5/1.88	RC-112 4⅝ high
CGU-6	Output, PP 6156's, 250TH's	4500	600	300/170/75/18.75	RC-135
CGU-7	Output, PP 6156's, 250TH's	4500	600	30/17/7.5/1.88	RC-125
CGU-8	Output, PP 6156's	9200	1000	300/170/75/18.75	RC-175
CGU-9	Output, PP 5868's	10200	2000	300/170/75/18.75	5¼x5¾x8

COMMERCIAL GRADE CASE

Case No.	Base Dim. (Sq.)	Mounting Dim. (Sq.)	Mounting Screw	Height +1/8, −1/16	Cutout Dia.	Unit Weight Lbs.
RC-37	1⅜	1⅛	4-40	1⅝	1¼	.35
RC-50	1⅝	1⅜	6-32	2¼	1½	½
RC-62	1 13/16	1½	6-32	2½	1½	1
RC-75	2 1/16	1 13/16	8-32	2⅞	1⅞	1½
RC-87	2 1/16	2 3/32	8-32	3¼	2	2½
RC-100	3	2⅜	8-32	3¾	2⅝	3½
RC-112	3 1/16	2 11/16	10-32	4⅛	2⅞	5
RC-125	3¾	3	10-32	4½	3	6½
RC-150	4½	3 9/16	12-28	5½	3¾	11
RC-152	5⅛	4⅛	12-28	5½	4	15½
RC-175	5¾	4⅞	¼-20	7⅛	4	22

OUTPUT TRANSFORMERS

Secondary Impedances: 500, 200, 16, 8, 5, 3, 1.5 ohms

Type No.	Impad. P. P. Ohms, Overall	Typical Tubes	Max. Watts	Case No.
CG-15	8,000	6F6 triode, 6V6, 6AQ5	20	RC-100
CG-16	3,000/5,000	2A3, 6AS7G, 6L6, 6080	20	RC-100
CG-19	6,000/10,000	6V6, Triode: 6L6, 5881	20	RC-100
CG-710	14,000/20,000	7B5, 6AK6, 6K6GT	20	RC-100
CG-2L6	9,000	6L6's, AB1, 5881	30	RC-125

FEEDBACK OUTPUT TRANSFORMERS

(See page 25 for typical circuit)

Secondary Impedances: 4, 8, 16 ohms and 70 Volt line.

Type No.	Primary Impedance	Typical Tubes	Audio Watts	Case No.
CG-20	5,000 CT, 43% screen taps	EL-34 in AB	25	RC-125
CG-21	3,300 CT, 40% screen taps	6550's in AB;	50	RC-150

CG VARIMATCH OUTPUTS FOR P. A.

Universal units designed to match any tubes within the rated output power, to line or voice coil. Output impedance 500, 200, 50, 16, 8, 5, 3, 1.5 ohms. Primary Impedance 3000, 5000, 6000, 7000, 8000, 10,000, 14,000 ohms.

Type No.	Audio Watts	Typical Tubes	Case No.
CVP-1	12	2A3, 25L6, 6V6, 6AQ5	RC-100
CVP-2	30	2A3, 6L6, 6V6, 807, 5881	RC-125
CVP-3	60	300B's, 6L6's, 807, 1614, 5881, 1625	RC-150
CVP-4	125	807's, 4-6L6's, 845's, 4-1614's, 6146, 6159	RC-152
CVP-5	300	242A's, 838's, 4-845's, ZB-120's	RC-175

CG VARIMATCH LINE TO VOICE COIL TRANSFORMERS

The UTC VARIMATCH line to voice coil transformers will match any voice coil or group of voice coils to a 500 ohm line. More than 50 voice coil combinations can be obtained, as follows:

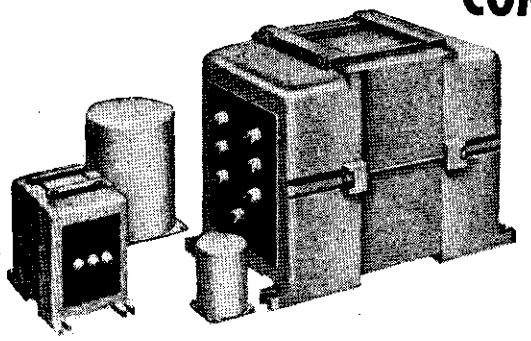
.2, .4, .5, .62, 1, 1.25, 1.5, 2, 2.5, 3, 3.3, 3.8, 4, 4.5, 5, 5.5, 6, 6.25, 6.6, 7, 7.5, 8, 9, 10, 11, 12, 14, 15, 16, 18, 20, 25, 28, 30, 31, 40, 47, 50, 63, 69, 75.

Where speakers are to be connected in groups to one transformer, it is preferable that parallel connection be used to eliminate the possibility of multiple resonance. If two speakers of different impedances are connected in parallel, the lower impedance speaker will develop greater power. If connected in series, the higher impedance speaker will develop greater power.

Type No.	Audio Watts	Primary Impedance	Secondary Impedance	Case No.
CVL-1	15	500 ohms	.2 to 75 ohms	RC-87
CVL-2	40	500 ohms	.2 to 75 ohms	RC-125
CVL-3	75	500 ohms	.2 to 75 ohms	RC-150

(Refer to Page N-749 for UTC Prices)

COMMERCIAL GRADE COMPONENTS



UTC CG power transformers, Varimatch units and chokes are designed to A.I.E.E. commercial standards. Ratings are conservative for continuous duty. Units are tested for breakdown at twice maximum working voltage plus 1000 volts and surge tested at 250% normal voltage. All items are vacuum impregnated and sealed with special insulating compound. The conservative design and manufacturing procedure of these units make them suitable for virtually all types of commercial equipment as well as ideally suited for quality amateur and public address service.

CG VARIMATCH MODULATION UNITS

Will match any modulator tubes to any RF load.
The ever increasing number of vacuum tubes available for audio and RF applications has increased the difficulty of obtaining transformers suitable for matching to the various correct tube loads. If a standard transformer having a limited impedance range is purchased and used for a specific purpose as the "nearest thing" available, comparatively high distortion is inevitable. While a 20% mismatch caused by such an occurrence does not represent a serious loss in power, it greatly reduces the undistorted power available from a class B modulator because optimum plate load is not reflected to the tubes. The UTC Varimatch transformer eliminates this difficulty through the use of a combination of tapped winding affording an extremely wide range in impedance matching. Designs provide that for any load impedance employed, full class C plate current can be carried by secondary winding.

Primary impedances from 500 to 20,000 ohms
Secondary impedances from 30,000 to 300 ohms

Type No.	Max. Audio Watts	Max. Class C Input	Typical Modulator Tubes	Case No.
CVM-0	12	25	2A3	RC-100
CVM-1	30	60	6V6, 2A3, 6L6, 807, 5881	RC-125
CVM-2	60	125	801A, 6L6, 809, T-20, 1608, 6159	RC-150
CVM-3	125	250	800, 807, 845, TZ-20, RK-30, 35-T	RC-152
CVM-4	300	600	50-T, 805, 838, T-55, ZB-120, 4-65A	RC-175
CVM-5	600	1200	805, HF-300, HK-354, 250TH, 810, 4-125A	7x12x9H 60 lbs.

CG VARIMATCH DRIVER TRANSFORMERS

Type No.	Primary	Typical Output Tubes	Max. Level Watts	Case No.
CG-51AX	All single tubes like: 6C5, 6C4, 12AU7, 2A3, 5814A Ratios 2.8:1, 3.1:1	2A3, 6L6	5	RC-87
CG-53AX	P. P. tube like: 2A3, 6L6, Ratios 2:1, 3:1, Pri. to ½ sec.	841, 801A, 800, 838, 805, 50T	20	RC-112

VARIPOWER AUTO-FORMERS

Type No.	Watts Output	Case No.
CVA-1	150	RC-112
CVA-2	250	RC-125
CVA-3	500	RC-150
CVA-4	1000	RC-152
CVA-5	2000	RC-175

Designed for line voltage control, filament control and reduced power operation. Output voltage from 0 to 130 volts, 50/60 cycles. Varipower units permit control of filament voltage at the tube socket to within 2½% of desired value simultaneously with line voltage control and plate voltage control. Can be used to reduce or increase voltages on filament transformers. Taps at 25, 55, 75, 95, 100, 105, 110, 115, 120, 125 and 130 volts permit output voltages from 0 to 130 volts in 5 volt steps.

POWER AND BIAS TRANSFORMERS

Primary 115 volts 50/60 cycles

(DC MA is for choke input. Reduce to 70% for condenser input.)

Type No.	High Voltage	DC MA.	Fil. 1	Fil. 2	Fil. 3	Fil. 4	Case No.
CG-422	435-365-0-365-435 125-0-125	125 25	5V-3A	5V-2A	6.3 VCT-3A	2.5 VCT-5A	RC-150
CG-428	500-0-500 80-0-80	250 100	5V-3A	5V-2A	6.3 VCT-4A	6.3 VCT-3A, tapped 2.5 VCT-3A	RC-152
CG-429	600-525-0-525-600	250	5V-3A	6.3 VCT-3-A	7.5 VCT-3A, tapped 6.3 VCT-4A		RC-152
CG-431	500-400-0-400-500 80-0-80	500 100	5V-6A	5V-2A	6.3 VCT-5A	6.3 VCT-3A	RC-175
CG-315	Tapped for any DC voltage from 15 to 100 volts within 6%—250 MA						RC-125
CG-316	Tapped for any DC voltage from 75 to 400 volts within 6%—250 MA						RC-152

CG PLATE TRANSFORMERS

Primaries for 105, 115, 220, 230 volts, 50/60 cycles. For reduced power, secondary voltages can be reduced to half by using 220V. Pri. on 110 volts. These transformers may be used on 25 to 43 cycles if 220V. Pri. is used on 110 volts. Secondary voltage is simultaneously halved.

Type No.	High Voltage	DC Voltage	DC MA	Case No.
CG-300	625-515-0-515-625	500/400	200	RC-150
CG-301	580-530-300-0-300-530-580	475/425/250	420	RC-152
CG-302	950-750-0-750-950	760/610	360	RC-175
CG-303	1500-1235-400-0-400-1235-1500	1250/1000 300	260* 175	RC-175

* 300MA, if used without load on low voltage winding.

TYPE EC CASE UNITS

Type No.	High Voltage	DC Voltage	DC MA	L	W	H	Mtg. Dim.	Wt. Lbs.
CG-305	2400-1750-0-1750-2400	2000/1500	300	10½	4¾	6⅞	3⅞x9⁹⁄₁₆	50
CG-306	2400-1750-0-1750-2400	2000/1500	500	15	8½	10⅜	7¼x13⅜	100
CG-307	3500-3000-2400-0-2400-3000-3500	3000/2500 2000	300	14½	8½	10⅜	7¼x12⅜	90
CG-308	3500-3000-2400-0-2400-3000-3500	3000/2500 2000	500	16½	8½	10⅜	7¼x14⅛	125
CG-309	3500-3000-2400-0-2400-3000-3500	3000/2500 2000	1000	21	10	13¼	8½x19	185
CG-311	1500-1235-0-1235-1500	1250/1000	500	10½	4¾	6⅞	3⅞x9⁹⁄₁₆	50
CG-312	1800-1500-0-1500-1800	1500/1250	400	10½	4¾	6⅞	3⅞x9⁹⁄₁₆	50

FILTER CHOKES

INDUCTANCE SHOWN IS AT RATED DC MA

Type No.	Inductance Henrys	DC MA	DC Res. Ohms	Test Volts RMS	Case No.
CG-40	10	200	110	1750	RC-112
CG-44	30	100	400	1750	RC-100
CG-45	250	15	5000	1750	RC-87
CG-48C	75	50	2200	1750	RC-87
CG-100	12	150	110	2500	RC-125
CG-102	12	250	100	3000	RC-150
CG-104	10	350	90	5000	RC-152
CG-108	10	500	52	7000	RC-175
CG-1S	10	1000	40	9000	11½x4¾x 6⅞ H, 40 lb.

SWINGING INPUT CHOKES

INDUCTANCE SHOWN IS FROM 100% TO 10% OF RATED DC MA

Type No.	Inductance Henrys	DC MA	DC Res. Ohms	Test Volts RMS	Case No.
CG-101	5-25	150	110	2500	RC-125
CG-103	5-25	250	100	3000	RC-150
CG-105	5-25	350	90	5000	RC-152
CG-109	5-25	500	52	7000	RC-175
CG-1C	5-25	1000	40	9000	11½x4¾x 6⅞ H, 40 lb.

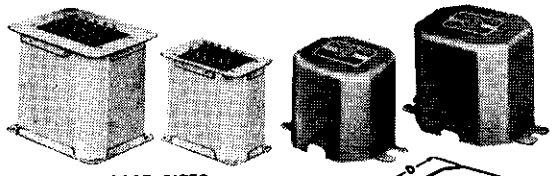
FILAMENT TRANSFORMERS

Primary 105, 115, 210, 220, 230 volts, 50/60 cycles, except CG-34 . . . 105, 115, 220, 230. These transformers may be used on 25 to 43 cycles if 220 volt primary is used on 110 volts. Secondary voltage is simultaneously reduced to half.

Type No.	Sec. Volts C. T.	Sec Amps.	Working Voltage	Test Volts RMS	Case No.
CG-33	6.3	4	500	2000	RC-75
CG-34	2½	10	2500	6000	RC-112
CG-120	2½	10	5000	11000	RC-125
CG-121	5	25	5000	11000	RC-150
CG-122	7.5/6.3	10	1500	4000	RC-125
CG-124	10	10	1500	4000	RC-150
CG-125	14/12/11	10	1500	4000	RC-150
CG-126	14/11/10 14/11/10 Two Windings.	10 10	1500	4000	RC-152

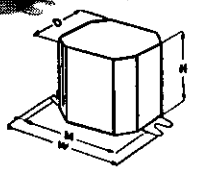
SPECIAL SERIES AUDIO & POWER COMPONENTS

UTC Special Series units are specifically designed for amateur and popular-priced PA service. They are finished in a rich, commercial type medium gray enamel. The universal windings provided on driver, matching and output transformers assure a maximum of flexibility. Large components are housed in formed cases with top or bottom mounting. All units are vacuum impregnated—compound filled, recommended for ICAS use.



CASE SIZES

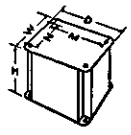
Type No.	H	W	D	M	Wt. Lbs.
C-1	1⅞	2 1/16	1¾	2⅜	1
C-2	2 5/16	3⅜	1 15/16	2⅞	1½
C-3	2½	3¾	2 9/32	3¼	2
C-4	2 15/16	4⅛	2 5/16	3⅝	3



CASE SIZES

(Will take 12-28 Mtg. Screw)

Type No.	H	W	D	M	N	Wt. Lbs.
C-5	3¾	3⅛	4½	3⅞	2 7/16	4½
C-7	4⅜	4⅜	5½	4 27/32	3 25/32	8
C-8	4⅜	5⅜	5⅜	4 25/32	4¾	12
C-9	5⅞	5⅜	6¾	6 1/32	4 13/32	21
C-10	5⅞	6⅛	6⅝	5 13/16	5 13/32	24
C-11	5⅞	6½	7⅜	6 31/32	5 29/32	31
C-12	10¼	7⅜	9¼	8½	6⅝	52



CLASS A INPUT TRANSFORMERS

Type No.	Application	Ratio	Case
S-1	1 plate* to 1 grid	3½:1	C-2
S-2	1 plate* to 2 grids	2:1 4:1	C-2
S-3	1 plate* to 1 or 2 grids compact type	4:1	C-1
S-5	Single or double button mike or line to 1 grid hum-bucking type	16:1	C-2
S-6	Single or double button mike or line to 1 grid, compact type	16:1	C-1

* Will match tubes like 6J5, 6C4, 12AU7. etc. Can be used with high mu triodes with loss in low frequencies.

UNIVERSAL DRIVER TRANSFORMERS

(See Modulator chart for tube types, ratios are Pri. to ½ sec.)

Type No.	Application	Max. Watts	Case
S-8	Single driver plate to pushpull grids, 2.66:1, 5:1 ratios	5	C-3
S-9	Pushpull driver plates to grids of class B tubes up to 400 watts output, 2.25:1, 3.6:1, 5:1 ratios	20	C-4
S-10	12AU7 or similar plates to 5881 or 6L6's, self or fixed bias, 2.25:1 ratio	5	C-3

MATCHING TRANSFORMERS

Type No.	Application	Pri. Ohms	Sec. Ohms	Case
S-11	Single 6J5, 6C4, 12AU7 or similar tube to line	15,000	200/500	C-2
S-12	Line to speaker 15 watts	500, 2000, 4000	2, 4, 8, 15	C-2
S-13	Line to speaker 30 watts	500, 2000, 4000	2, 4, 8, 15	C-4

UNIVERSAL OUTPUT TRANSFORMERS TO LINE AND VOICE COIL

(Secondary Impedances: 500, 15, 8, 2 ohms)

Type No. Max. Watts	Primary Impedance	Typical Tubes	Class	Case
	Single Tubes:			
S-14 10 W.	2500 ohms	2A3, 6B4, 6L6, 6Y6, 25L6GT, 35L6GT	A	C-2
	4000 ohms	6V6, 12A6	A	
	7000 ohms	6AC5, 6F6, 7B5, 6K6GT	A	
	10,000 ohms	1G5, 3C5, 6A4, 6N7	A	
	P. P. Tubes:			
S-15 12 W.	4000 ohms	6Y6, 25L6GT	AB	C-2
	5000 ohms	2A3, 6AS7G	AB	
	10,000 ohms	6080	B	
S-16 30 W.	3000 ohms	2A3, 25L6GT	AB	C-4
	6000 ohms	6F6 triodes, 6AS7G	AB	
	9000/10000 ohms	2A5, 6F6, 6L6, 6V6, 807-triode	AB	
S-17 55 W.	3800 ohms	6L6's	AB2	C-5
	4500/5000 ohms	4—6L6's	AB1	
		809, 6146	B	

UNIVERSAL MODULATION TRANSFORMERS

Secondary carries class C current
Any modulator tubes to any RF load. (See chart)

Type No.	Audio Power	Case
S-18	12 watts	C-3
S-19	30 watts	C-4
S-20	55 watts	C-5
S-21	110 watts	C-7
S-22	250 watts	C-8

FILTER, SWINGING, AND AUDIO CHOKES

Type No.	Service	Inductance	Current	Resistance	Test Volts Rms	Case No.
S-23	Audio	300 Hy.	5 Ma.	5000 ohms	1500 V.	C-2
S-24	P. P. Choke	500 Hy. C. T.	3 Ma.	6000 ohms	1500 V.	C-2
S-25	Filter	30 Hy.	30 Ma.	800 ohms	1500 V.	C-2
S-26	Filter	12 Hy.	60 Ma.	250 ohms	1500 V.	C-2
S-27	Filter	25 Hy.	75 Ma.	350 ohms	1500 V.	C-4
S-28	Filter	20 Hy.	100 Ma.	350 ohms	1500 V.	C-4
S-29	Filter	6 Hy.	175 Ma.	90 ohms	1500 V.	C-4
S-30	Swinging	4/20 Hy.	175 Ma.	90 ohms	1500 V.	C-4
S-31	Filter	6 Hy.	225 Ma.	100 ohms	2700 V.	C-5
S-32	Swinging	4/20 Hy.	225 Ma.	100 ohms	2700 V.	C-5
S-33	Filter	8 Hy.	300 Ma.	100 ohms	4000 V.	C-7
S-34	Swinging	4/20 Hy.	300 Ma.	100 ohms	4000 V.	C-7
S-35	Filter	8 Hy.	400 Ma.	60 ohms	5000 V.	C-8
S-36	Swinging	4/20 Hy.	400 Ma.	60 ohms	5000 V.	C-8
S-37	Filter	8 hy.	550 Ma	60 ohms	6000 V.	C-8
S-38	Swinging	4/20 Hy.	550 Ma.	60 ohms	6000 V	C-8

COMBINED PLATE AND FILAMENT UNITS

Primary 115 V.—50/60 Cycles

Type No.	Voltage	D. C. Voltages*	Rectifier Fil.	Fil. No. 1	Fil. No. 2	Case No.
S-39	490-400-0-400-490 175 Ma.	400/310	5 V.-3A	2.5 V.C.T. -6A	6.3 V.C.T. 4A	C-7
S-40	525-425-0-425-525 250 Ma.	400/310	5 V.-3A	6.3 V.C.T. -3A	6.3 V.C.T. 3A	C-7
S-41	600-0-600 200 Ma.	475	5 V.-3A	7.5 V. tapped 6.3 V.-3A	6.3 V.C.T. 2A	C-7
S-42	600-525-0-525-600 300 Ma.	480/460	5 V.-6A	7.5 V. tapped 6.3 V.-3A	6.3 V.C.T. 3A	C-8
S-43	525-0-525 450 Ma. 40-0-40 200 Ma.	400	5 V.-3A 5 V.-6A	6.3 V.-2A	6.3 V.C.T. 5A	C-8

* Based on two section filter, choke input.

PLATE TRANSFORMERS — BIAS TRANSFORMERS

Primary 115 V.—50/60 Cycles

Type No.	High Voltage	DC Voltages*	DC Current	Case No.
S-44	575-525-0-525-575	470/430	500 Ma.	C-8
S-45	900-750-0-750-900	750/620	200 Ma.	C-8
S-46	1000-750-0-750-1000	825/600	300 Ma.	C-9
S-47	1500-1250-1000-0-1000-1250-1500	1275/1050/825	300 Ma.	C-10
S-48	1500-1250-1000-0-1000-1250-1500	1300/1075/850	500 Ma.	C-11
S-49	2100-1800-1500-0-1500-1800-2100	1815/1540/1275	300 Ma.	C-11
S-50	3000-2500-0-2500-3000	2625/2175	300 Ma.	C-12
S-51	Will supply any bias voltage from 15 to 100 volts DC within approximately 6% of desired value.		200 Ma.	C-5
S-52	will supply any bias voltage from 75 to 400 volts DC within approximately 6% of desired value.		200 Ma.	C-7

* Based on two section filter for 200 Ma. and 300 Ma. units, single section filter for 500 Ma. units, both choke input.
† 200 Ma. if used alone. ‡ 300 Ma. if used alone.

FILAMENT TRANSFORMERS

Primary Tapped 105, 115 Volts—50/60 Cycles

Type No.	Secondary Volts	Secondary Current	Test Volts Rms	Case No.
S-53	2.5 VCT	10 A.	1500 V.	C-3
S-54	5 VCT	4 A.	2500 V.	C-3
S-55	6.3 VCT	3 A.	1500 V.	C-3
S-57	2.5 VCT	10 A.	10,000 V.	C-5
S-58	2.5 VCT	20 A.	10,000 V.	C-5
S-59	5 to 5.25 VCT	13 A.	5000 V.	C-5
S-60	5 to 5.25 VCT	22 A.	10,000 V.	C-7
S-61	7.5 VCT tapped 6.3 VCT	10 A.	3000 V.	C-5
S-62	10 VCT	10 A.	3000 V.	C-5
S-63	14 VCT tapped 12 VCT and 11 VCT	10 A.	5000 V.	C-7

Type No.	Fil. 1	Fil. 2	Fil. 3	Test Volts	Case No.
S-64	2.5 VCT-5A	2.5 VCT-5A	5 VCT-6A	3000 V.	C-5
S-65	2.5 VCT-5A	5 VCT-4A	6.3 VCT-3A	3000 V.	C-5
S-67	5 VCT-6A	6.3 VCT-5A		3000 V.	C-5
S-68	5 VCT-3A	6.3 VCT-4A	7.5 VCT-5A	3000 V.	C-5
S-70	6.3 VCT-5A	6.3 VCT-5A		3000 V.	C-5
S-71	2.5 VCT-6A	2.5 VCT-6A	2.5 VCT-12A	10000 V.	C-7
S-72	5 VCT-3A	5 VCT-3A	5 VCT-6A	5000 V.	C-8

(Refer to Page N-749 for UTC Prices)

REPLACEMENT TYPE COMPONENTS

STEP DOWN AUTO-TRANSFORMERS

220/240 Volt to 110/120 Volts, 50/60 Cycles.
All units have 6 foot cord and female receptacle, except R-64.

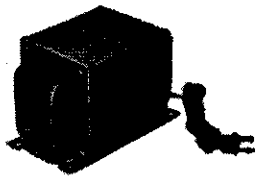
Type No.	Rating Watts	L	W	H	Mtg. Dim.	Wgt. Lbs.
R-41	85	3	2⅝	3⅛	2 x1⅞	4
R-42	125	3⅝	3	3½	2¼x2 1/16	5
R-43	175	3⅝	3¼	3⅞	2½x2¼	5½
R-44	250	4⅜	3¼	3⅞	2½x2⅞	6½
R-45	500	4⅞	3⅞	4⅝	3 x3¼	12
R-46	1200	6⅝	3⅞	4⅝	3 x5½	18
R-64	2500	10½	4¾	6¾	3⅞x9⅞	30

ISOLATION TRANSFORMERS

Ideal for isolating line noise, AC-DC sets, etc. Excellent electrostatic shielding. 1500 volt breakdown test. Six foot cord and female receptacle, except R-77.

Primary 110-120 volts, 50/60 cycles—Secondary 110-120 volts
Except R-97 220 volt Primary—120 volt Sec.

Type No.	Rating Watts	L	W	H	Mtg. Dim.	Wgt. Lbs.
R-72	40	2¾	2⅝	3⅛	2 x1⅞	4
R-73	100	3⅝	3¼	3⅞	2½x2⅜	6
R-74	250	4⅝	3⅞	4⅝	3 x3½	12
R-75	600	6⅞	3⅞	4⅝	3 x6	20
R-76	1200	8⅜	4½	5⅞	3⅝x6⅝	30
R-77	2500	12	7	9	6 x12	70
R-87	250	4⅝	3⅞	4⅝	3 x3½	12



EXPORT VOLTAGE ADAPTER

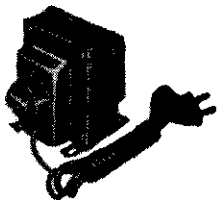
Complete with cord and plug and special locking switch providing for line voltages of 105, 115, 125, 135, 150, 210, 230, 250 volts; 42 to 60 cycles. Output voltage 115.

Type No.	Rating Watts	L	W	H	Mtg. Dim.	Wgt. Lbs.
R-47	85	4⅜	3	3½	2¼x2¼	4½
R-48	150	4⅜	3¼	4	2½x2¼	5½

TV VOLTAGE REGULATOR

Complete with cord, plug, and special locking switch. Permits operation of 115 volt 50/60 cycle TV sets on line voltages of 85, 90, 95, 100, 105, 110, 120, 125 V.

Type No.	Rating Watts	L	W	H	Mtg. Dim.	Wgt. Lbs.
R-49	350	5	3¼	4	2½x2¾	5



LINE VOLTAGE ADJUSTERS WITH METER

The perfect answer to abnormal or fluctuating line voltage. Adjust switch so that meter reads at red line and you know that your equipment is working at correct voltage.

These units combine a tapped auto-transformer with a switch and meter in a compact, rugged assembly.

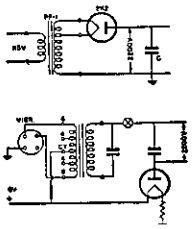
The nine tap switch provides for line voltage of 60 to 140 volts on 115 volt output models and 160 to 240 volts on 230 volt output model.

All units are designed for 50/60 cycle service and come complete with 6 foot input cord and plug and outlet receptacle.

Type No.	Primary Voltages	Sec. Volts	Rating Watts	L	W	H	Wgt. Lbs.
R-78	60, 70, 80, 90, 100, 110, 120, 130, 140	115	150	7	4	4¾	6
R-79	60, 70, 80, 90, 100, 110, 120, 130, 140	115	300	7	4	4¾	9
R-80	60, 70, 80, 90, 100, 110, 120, 130, 140	115	600	10¼	4	4¾	13
R-81	60, 70, 80, 90, 100, 110, 120, 130, 140	115	1200	10¼	4	4¾	21
R-86	160, 170, 180, 190, 200, 210, 220, 230, 240	230	1200	10¼	4	4¾	21

PHOTO FLASH TRANSFORMERS

Can be used for either standard (Amglo type) or trigger (Sylvania type) multiple flash bulbs. Circuit details included with transformer.



PF-1 Primary for 115 volts, 50/60 cycles. Secondaries for power supply delivering 2200 volts DC to condenser up to 100 Mfd. Compound sealed in G-3* case 2⅛ x 2¾ (3¾ including flanges) x 2½ inches high. Weight 2 lbs.

PF-2 For portable service. Primary tapped for 4 volt or 6 volt battery (full wave vibrator). Secondary for power supply delivering 2200 volts DC to condenser up to 60 Mfd. Compound sealed in G-3* case. Weight 2 lbs.

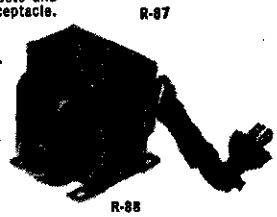
PF-3 Trigger Transformer 15 kV peak. ⅞ O.D. x 3" long. Weight 2 Oz.

VOLTAGE BOOSTERS

The constantly increasing appliance load in home and office presents a serious low line voltage problem to which the UTC voltage booster is a perfect answer. These autotransformers are designed to operate from a 95 to 110 V. 50/60 cycle line. They boost the voltage 10%. The two ratings shown are ideal for TV sets and air conditioners. Complete with line cord and receptacle.

R-87

Type No.	Rating Amp.	Rating Watts	L	W	H	Mtg. Dim.	Wgt. Lbs.
R-87	3	350	3⅛	2	2¾	2⅞	2
R-88	18	2000	3⅞	4⅛	4⅝	3x3	12



R-88

VARITRAN VOLTAGE ADJUSTERS

Input 115 volts 50/60 cycles. Output continually adjustable from 0-130 Volts through roller contact on exposed autotransformer winding. Regulation and efficiency are excellent, no wave form distortion. Output voltage is independent of load. Complete with line cord, switch, and receptacle . . . for loads up to 570 Watts . . . 5 A.

Type		L	W	H	Wt. Lbs.
V-1-M	with meter	4⅞ x 9⅞ x 3⅝			14
V-1	without meter	4⅞ x 8 x 3⅝			12

SIGNALLING AND CONTROL TRANSFORMERS

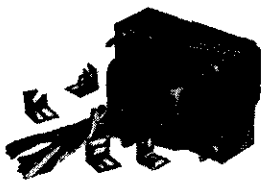
Primary 110-120 volts, 50/60 cycles—Secondary 4/8/12/16/20/24 volts

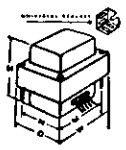
High power transformers suitable for operating relays, sirens, horns, gongs, etc. from 115 V. 50/60 cycle line. These units have four secondary terminals providing 4, 8, 12, 16, 20 and 24 volt output. The volt ampere rating is based on the 24 volt secondary tap with corresponding reduction at the lower voltages. Underwriters' approved primary leads are employed, and screw-type binding posts.

Type No.	Rating Watts	L	W	H	Mtg. Dim.	Wgt. Lbs.
SC-3	50	3	x 3½ x	3 1/16	1⅞ x 2¼	3
SC-4	100	3¼ x 4	x 4		2⅛ x 2½	5
SC-5	250	4	x 5 x	4¾	3¼ x 3	10

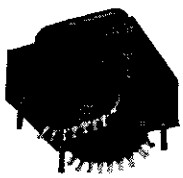
REPLACEMENT TYPE COMPONENTS

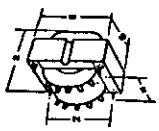
UTC replacement type transformers (Pri. 117 V. 50/60 cycles) represent the culmination of years of development in this field. All units are low temperature rise, vacuum sealed against humidity with special impregnating materials to prevent corrosion and electrolysis. Shells are finished in attractive high lustre black enamel.



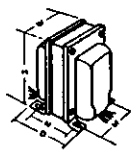


DOUBLE SHELL TYPE

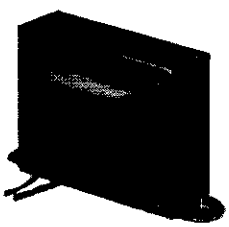


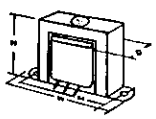


SINGLE SHELL TYPE



VERTICAL SHELL TYPE





CHANNEL FRAME TYPE

DOUBLE SHELL POWER TRANSFORMERS

Type No.	High V.	DC MA.	Rec. Fil.	Amp. Fil.	W	D	H	M	N	Wt. Lb.
R-101	275-0-275	50	5V-2A.	6.3V CT-2.7A	3	2½	2⅞	2½	2 1/16	2½
R-102	350-0-350	70	5V-3A.	6.3V CT-3A	3	2½	3½	2½	2 1/16	3½
R-103	350-0-350	90	5V-3A.	6.3V CT-3.5A	3⅜	2⅞	3¾	2 13/16	2¼	4½
R-104	350-0-350	120	5V-3A.	6.3V CT-5A	3¾	3⅛	3¾	3⅛	2½	5½
R-105	385-0-385	160	5V-3A.	6.3V CT-5A	3¾	3⅛	4 5/16	3⅛	2½	7

SINGLE SHELL POWER TRANSFORMERS

Type No.	High V.	DC MA.	Rec. Fil.	Amp. Fil.	W	D	H	M	N	Wt. Lb.
R-106	300-0-300	50	5V-2A.	6.3V CT-2.7A	3	2½	3	2½	2 1/16	2½
R-107	350-0-350	70	5V-3A.	6.3V CT-3A	3	2½	3⅝	2½	2 1/16	3½

VERTICAL SHELL POWER TRANSFORMERS

Type No.	High V.	DC MA.	Rec. Fil.	Amp. Fil.	W	D	H	M	N	Wt. Lb.
R-110	300-0-300	50	5V-2A.	6.3V CT-2.7A	2½	2 1/16	3¼	2	1¾	2½
R-111	350-0-350	70	5V-3A.	6.3V CT-3A	2½	3 1/16	3¼	2	2⅜	3½
R-112	350-0-350	120	5V-3A.	6.3V CT-5A	3¼	3⅝	4	2½	2 1/16	5½
R-113	400-0-400	200	5V-3A.	6.3V CT-6A	3⅞	4¼	4⅝	3	3⅛	8

CHANNEL FRAME FILTER CHOKES

Inductance Shown Is at Rated D.C.M.A.—Test Volts RMS: 1500

Type No.	Induct. Hys.	Current	Resistance Ohms	W	D	H	M	Lbs.
R-55	6	40MA	300	2½	1⅜	1⅜	2	½
R-14	8	40MA	250	2⅞	1⅜	1 1/16	2⅜	¾
R-15	12	30MA	450	2⅞	1⅜	1 1/16	2⅜	¾
R-16	15	30MA	630	2⅞	1⅜	1 1/16	2⅜	¾
R-17	20	40MA	850	3 1/16	1⅝	2	2 3/16	1
R-18	8	80MA	250	3 1/16	1⅝	2	2 3/16	1
R-19	14	100MA	450	3¾	1¾	2 5/16	3⅛	1½
R-20	5	200MA	90	4⅛	2	2⅝	3 1/16	2½
R-21	3/15	200MA	90	4⅛	2	2⅝	3 1/16	2½

CHANNEL FRAME AUDIO TRANSFORMERS

Type No.	Application	Description	Dimen., Ins. W	D	H	M	Lbs.
R-34	1 plate to 2 grids	2:1 ratio	2⅞	1⅜	1 1/16	2⅜	¾
R-35	Mike to 1 grid	17:1 ratio to Pri. C.T	2⅞	1⅜	1 1/16	2⅜	¾
R-58	5 watt Universal output	Any single tube to any voice coil, .1 to 30 ohms	2½	1⅜	1⅜	2⅛	½
R-38A	6 watt Universal	Any tubes up to 6 watts to any voice coil, .1 to 30 ohms	2½	1⅜	1⅜	2⅛	½
R-59	10 watt Universal	Any tubes up to 10 watts to any voice coil, .1 to 30 ohms	2⅞	1⅜	1 1/16	2⅜	½
R-60	15 watt Universal	Any tubes up to 15 watts to any voice coil, .1 to 30 ohms	3 1/16	1⅝	2	2 3/16	1
R-39	10 watt line Matching Transformer	250, 500, 1,500 ohms to 2, 8, 15 ohms	2⅞	1⅜	1 1/16	2⅜	¾

FILAMENT TRANSFORMERS

CHANNEL FRAME TYPE

Pri. 115 V. 50/60 Cycles—Test Volts RMS: 1500

Type No.	Secondary	Dimensions, Inches W	D	H	M	Wt. Lbs.
FT-1	2.5 V.C.T.-3A	2⅞	1⅜	1 1/16	2⅜	¾
FT-2	6.3 V.C.T.-1.2A	2⅞	1⅜	1 1/16	2⅜	¾
FT-3	2.5 V.C.T.-6A	3 1/16	1⅝	2	2 3/16	1
FT-4	6.3 V.C.T.-2.5A	3 1/16	1⅝	2	2 3/16	1
FT-5	2.5-V.C.T.-10A	3¾	1¾	2 5/16	3⅛	1½
FT-6	5 V.C.T.-3A	3¾	1¾	2 5/16	3⅛	1½
FT-7	7.5 V.C.T.-3A	3¾	1¾	2 5/16	3⅛	1½
FT-8	6.3 V.C.T.-8A	4⅛	2¼	2⅝	3 1/16	2½
FT-10	24V CT-2A or 12V-4A	4⅛	2¼	2⅝	3 1/16	2½

(Refer to Page N-749 for UTC Prices)