



TERMINAL ARRANGEMENTS

This terminal arrangement listing is a ready reference for all units in the Linear Standard, Hipermalloy, Ultra Compact, Ouncer, and Plug In lines of UTC transformer components.

To use this reference, look up the type number of the unit in the first column. The number in the corresponding second column, when looked up on the following pages, will indicate the primary terminal connections. The number in the third column, when found in the following pages, will indicate the secondary terminal connections. The letter in the fourth column is indicated on page four above a schematic diagram, showing the actual winding-terminal arrangement.

Where no type number or no pri. and sec. numbers are shown, the transformer terminal board markings are self explanatory. Transformer terminals marked $\frac{1}{2}$ are grounded to case.

LS
A
HA
O
P

UNITED TRANSFORMER COMPANY • 150 VARICK ST., NEW YORK 13, N. Y.

TYPE	PRI.	SEC.	SCHEM.	TYPE	PRI.	SEC.	SCHEM.
A-10	6	31	F	LS-34	6	1,7	N
A-11	9	32	AA	LS-38	25	6	O
A-12	6	31	F	LS-39	28	6	K
A-14	5	31	J	LS-40	—	—	P
A-16	—	—	I	LS-47	—	—	B
A-17	—	—	I	LS-48	—	—	B
A-18	—	—	H	LS-49	—	—	Q
A-19	—	—	P	LS-50	28	6	K
A-20	6	7	L	LS-51	33	6	K
A-21	10	11	Y	LS-52	—	1,7	C
A-24	28	6	K	LS-54	—	1	D
A-25	—	6	AB	LS-55	—	1,7	E
A-26	33	6	K	LS-56	—	22,1	E
A-27	28	6	K	LS-57	—	1	R
A-30	43	—	—	LS-58	—	1,7	E
A-32	43	—	—	LS-60A	—	2	D
HA-100	6	31	F	LS-61	—	1,7	E
HA-100X	6	31	F	LS-62A	—	13	S
HA-101	6	31	F	LS-63	—	1	R
HA-101X	6	31	F	LS-66	—	23	T
HA-103A	3	31	F	LS-67	—	21	U
HA-104	—	—	H	LS-74	44	44	—
HA-105	—	—	H	LS-80	35	—	—
HA-106	—	—	H	LS-82	35	—	—
HA-107	—	—	B	LS-83	35	—	—
HA-108	6	7	L	LS-84	35	—	—
HA-108X	6	7	L	LS-88	36	—	—
HA-111	28	6	K	LS-89A	35	—	—
HA-113	28	6	K	LS-90	42	—	—
HA-114	33	6	K	LS-91	42	—	—
HA-130X	12	31	G	LS-92	42	—	—
HA-133	28	6	K	LS-93	42	—	—
HA-134	24	7	L	LS-94	43	—	—
HA-135	—	1	R	LS-96	42	—	—
HA-137	—	—	R	LS-99	42	—	—
HC-115	43	—	—	LS-120	35	—	—
HC-116	43	—	—	LS-121Y	35	—	—
HC-117	43	—	—	LS-140	19	20	V
HP-122	40	40	—	LS-141	8	8	W
HP-123	41	41	—	LS-142	14	—	X
LS-5	6	—	A	LS-143	17	18	Y
LS-6	—	—	B	LS-150	25	6	Z
LS-6L1	—	1,7	C	LS-151	25	6	—
LS-6L3	—	1	D	LS-180	37	37	—
LS-6L4	—	1,7	E	LS-180H	37	37	—
LS-7	—	—	F	LS-181	35	—	—
LS-10	6	31	F	LS-182	35	—	—
LS-10X	6	31	F	LS-183	35	—	—
LS-12	6	31	F	LS-184	35	—	—
LS-12X	6	31	F	LS-185	35	—	—
LS-14	3	31	F	LS-190	38	38	—
LS-14X	3	31	F	LS-192	39	39	—
LS-15	12	31	G	LS-950	42	—	—
LS-15X	12	31	G	LS-980	42	—	—
LS-18	6	—	A	O-1	9	29	AC
LS-19	—	—	H	O-2	9	32	AA
LS-20	—	—	I	O-3	4	29	AD
LS-21	—	—	H	O-4	26	30	AE
LS-22	—	—	B	O-5	26	30	AE
LS-25	—	—	B	O-6	26	32	AF
LS-26	26	31	J	O-7	26	32	AF
LS-27	28	6	K	O-8	27	9	AG
LS-30	6	7	L	O-9	27	9	AG
LS-30X	6	7	L	O-10	34	9	AH
LS-31	12	7	M	O-11	27	9	AG
LS-31X	12	7	M	O-12	16	9	AH
LS-32	3	7	N	O-14	15	30	AE
LS-33	6	1,7	N	O-15	26	30	AE
				P-1 through P-15 same as O-1, etc.			



Impedance	Connect To	Join
	1	
1.2 ohms	13 and 18	14 & 18, 13 & 17
2.5	14 and 17	14 & 15, 16 & 17
5	13 and 18	14 and 17
7.5	13 and 18	16 & 18, 13 & 15
10	14 and 17	15 and 16
15	13 and 18	16 and 17
20	14 and 18	15 and 16
30	13 and 18	15 and 16
	2	
1.2 ohms	14 and 17	14 & 15, 16 & 17
2.5	13 and 18	14 and 17
3.75	13 and 18	16 & 18, 13 & 15
5	14 and 17	15 and 16
7.5	13 and 18	16 and 17
10	14 and 18	15 and 16
15	13 and 18	15 and 16
	3	
2.5 ohms	1 and 2	1 & 5, 2 & 6
5.5	2 and 4	2 & 3, 4 & 5
10	2 and 5	1 and 6
15	1 and 4	1 & 3, 4 & 6
22	2 and 5	3 and 4
30	4 and 5	1 and 6
38	2 and 6	3 and 4
60	1 and 6	3 and 4
	4	
7.5 ohms	2 and 4	3 & 4, 1 & 2
30	1 and 4	2 and 3
	5	
30 ohms	1 and 2	
	6	
50 ohms	2 and 4	2 & 3, 4 & 5
125 (or 150)	1 and 4	1 & 3, 4 & 6
200 (or 250)	2 and 5	3 and 4
333	1 and 5	3 and 4
500 (or 600)	1 and 6	3 and 4
	7	
50 ohms	8 and 10	8 & 9, 10 & 11
125 (or 150)	7 and 10	7 & 9, 10 & 12
200 (or 250)	8 and 11	9 and 10
333	7 and 11	9 and 10
500 (or 600)	7 and 12	9 and 10
	8	
500 ohms	1 and 3	2-C.T.
500	4 and 6	5-C.T.
500	7 and 9	8-C.T.
	9	
50 ohms	3 and 4	
200	2 and 4	3-C.T.
500	1 and 5	3-C.T.
	10	
50 ohms	2 and 3	
250	1 and 2	
500	1 and 3	

Impedance	Connect To	Join
	11	
50 ohms	5 and 6	
200	4 and 5	
500	4 and 6	
	12	
Three separate primaries each marked 1, 2, 3, 4.		
30-50 ohms	1 and 4	1 & 2, 3 & 4
150-200-250	1 and 4	2 and 3
	13	
125 ohms	1 and 3	1 & 2, 3 & 4
500	1 and 4	2 and 3
	14	
500 ohms	1 and 3	2-C.T.
500	4 and 6	5-C.T.
	15	
200 ohms	1 and 2	
	16	
50 ohms	6 and 7	
200	6 and 8	7-C.T.
	17	
500 ohms	1 and 3	2-C.T.
	18	
500 ohms	4 and 6	5-C.T.
	19	
500/600 ohm	1 and 4	2 and 3
	20	
500/600 ohm	5 and 8	6 and 7
	21	
2500 ohms	1 and 4	1 & 3, 2 & 4
10,000	1 and 4	2 and 3
	22	
1000 ohms	8 and 11	8 & 9, 10 & 11
1500	7 and 12	7 & 9, 10 & 12
1800	7 and 12	8 and 9
4000	8 and 11	9 and 10
5000	8 and 12	9 and 10
6000	7 and 12	9 and 10
	23	
600 ohms	2 and 3	2 & 6, 3 & 7
1250	1 and 4	1 & 5, 4 & 8
2100	2 and 7	3 and 6
2500	2 and 7	3 and 5
2650	2 and 8	3 and 6
3300	1 and 8	3 and 6
3500	2 and 7	4 and 5
4100	1 and 8	4 and 6
4200	2 and 8	4 and 5
5000	1 and 8	4 and 5



Impedance	Connect To	Join
	24	
5000 ohms 9400	2 and 5 1 and 6	3 and 4 3 and 4
	25	
Primary	7 and 8	
	26	
Primary No. 1 to Plate	1 and 2	
	27	
Primary No. 7 to Plate	7 and 6	
	28	
Primary No. 7 to Plate	7 and 10	8 and 9
	29	
Secondary No. 7 to grid	6 and 7	
	30	
Secondary No. 4 to grid	3 and 4	
	31	
Single grid	7 to grid 10-return	8 and 9
Two grids	7 and 10 to grids	8 & 9-C.T.
	32	
Two grids	6 and 8	7-C.T.
	33	
Two plates	7 and 10	8 & 9-C.T.
	34	
Two plates	6 and 8	7-C.T.
	35	
100 V. 110 120 200 210 220 230 240	1 and 2 1 and 3 1 and 4 1 and 6 1 and 6 1 and 6 1 and 7 1 and 8	1 & 5, 2 & 6 1 & 5, 3 & 7 1 & 5, 4 & 8 2 and 5 3 and 5 4 and 5 4 and 5 4 and 5
	36	
105 V. 115 125	1 and 2 1 and 3 1 and 4	
	37	
Pri. H.V. 6.3V, .6A. 6.3V, 2A.	1 and 2 3 and 5 6 and 8 9 and 11	4-C.T. 7-C.T. 10 C.T.

Impedance	Connect To	Join
	38	
100 V. 105 110 115 120 125 700 } 600 } —HV 6.3 5 2.5	1 and 2 1 and 3 1 and 4 1 and 5 1 and 6 1 and 7 8 and 12 9 and 11 13 and 15 19 and 21 16 and 18	10-C.T. 10-C.T. 14-C.T. 20-C.T. 17-C.T.
	39	
105 V. 115 125 670 } 120 } —HV 5 6.3V, .75A. 6.3V, 5.25A.	1 and 2 1 and 3 1 and 4 5 and 9 6 and 8 10 and 11 12 and 14 15 and 17	7-C.T. 7-C.T. 13-C.T. 16-C.T.
	40	
Pri. H.V. 6.3V, 1.2A. 6.3V, .5A.	1 and 2 3 and 5 6 and 8 9 and 11	4-C.T. 7-C.T. 10-C.T.
	41	
Pri. H.V. 6.3V, 2A. 6.3V, 6A.	1 and 2 3 and 5 6 and 8 9 and 11	4-C.T. 7-C.T. 10-C.T.
	42	
Parallel Series Hum-Bucking	1 and 5 1 and 5 Circuit below	1 & 3, 4 & 5 3 and 4
<p style="text-align: center;">HUM BUCKING CONNECTION</p>		
	43	
Parallel Series	1 and 4 1 and 4	1 & 2, 3 & 4 2 and 3
	44	
115 V. Pri. 415 } 415 } 395 } 395 } 6.3V, 5A. 5V, 6A.	1 and 2 3 and 7 4 and 6 8 and 10 11 and 12	5-C.T. 5-C.T. 9-C.T.

AUDIO TRANSFORMER SCHEMATICS

