

PEERLESS
ELECTRICAL PRODUCTS

DIVISION
ALTEC
LANSING CORPORATION



** All primaries are 117 V, 60 cycle.

† All transformers in this group are supplied with electro-static shield.

▼ Maximum operating level, 1 mw reference.
• Impedance is total of two separate windings.

° These units may also be used as bridging transformers. Complete application data in each packing box.

COMBINATION PLATE AND FILAMENT TRANSFORMERS ** †

Type Number	High Voltage AC Volts	Secondary DC MA.	Filament 5 V.	Current, Amperes 6.3 V.C.T.	Dimensions, Inches			Weight Lbs.	Consumer Net Price
					Height	Depth	Width		
R-340-F	325-0-325	100	3.	5.	4 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{3}{4}$	4	\$20.25
R-490-F	350-0-350	200	3.	6.	5 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{3}{8}$	8	24.00
R-562-F	400-0-400	220	3.	6.	5 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{3}{8}$	9	27.00
R-631-F	500-435-0-435-500 (Has 100 V tap for C bias)	225	3.	6.	6	4 $\frac{3}{4}$	4 $\frac{1}{8}$	11 $\frac{1}{2}$	37.50
R-800-A	400-0-400	300	4.	4.-5.	4 $\frac{3}{4}$	5 $\frac{1}{8}$	3 $\frac{1}{8}$	12	24.00
R-815-S	550-275-0-275-550	280 from 550-0-550 40 from 275-0-275	6.	4.-4.2-9	6 $\frac{3}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{8}$	18	60.00

FILAMENT TRANSFORMERS

Type Number	Secondary Current, Amperes 6.3V. C.T.	Test Volts R.M.S.	Primary Volts 60 Cycle	Dimensions, Inches			Weight Lbs.	Consumer Net Price
				Height	Depth	Width		
F-012-X	1.	2000	117	1 $\frac{5}{8}$	2 $\frac{7}{8}$	1 $\frac{5}{8}$	$\frac{1}{2}$	\$ 4.50
F-139-E	8	2000	117	3 $\frac{1}{2}$	3 $\frac{1}{8}$	2 $\frac{7}{8}$	3 $\frac{1}{4}$	12.30

SMOOTHING CHOKES

Type Number	Current D.C. MA.	Inductance Henrys	Resistance Ohms	Test Volts R.M.S.	Dimensions, Inches			Weight Lbs.	Consumer Net Price
					Height	Depth	Width		
C-325-F	120	10	240	1500	3 $\frac{7}{8}$	2 $\frac{1}{8}$	2 $\frac{7}{8}$	3	\$11.25
C-390-F	200	10	150	1500	4 $\frac{1}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	6	15.00

STANDARD INPUT TRANSFORMERS

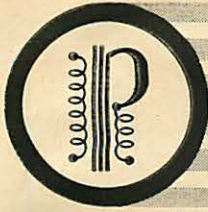
Type Number	Descriptive Data	Impedance, Ohms		Freq. Range ± 1 db	Dimensions, Inches			Weight Lbs.	Consumer Net Price
		Primary	Secondary		Height	Depth	Width		
K-308-D	Line, Mixer or Microphone to Sgle. Grid. Max. Level: 0 dbm▼. 60 db magnetic shielding.	250 C.T.	50,000	30-20,000 when terminated	1 $\frac{1}{2}$	1 $\frac{1}{8}$ round		$\frac{1}{4}$	\$12.30

STANDARD IMPEDANCE MATCHING TRANSFORMERS

Type Number	Descriptive Data	Audio Watts Max.	70 V Line	Impedance, Ohms		Freq. Range ± 1 db	Dimensions, Inches			Weight Lbs.	Consumer Net Price
				Primary	Secondary		Height	Depth	Width		
E-372-Q Repeat Coil	Electro-static Shield. 60 db Magnetic Shield.	+18 dbm▼	—	500 C.T.-333 250-200 C.T. 125-50	500 C.T.-333 200 C.T.-333 250-200 C.T. 125-50	20-20,000	3 $\frac{1}{2}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	\$22.50

STANDARD OUTPUT TRANSFORMERS

Type Number	Descriptive Data	Freq. Range ± 1 db	Impedance, Ohms		Pri. DC MA. Max. Unbal.	Audio Watts	Dimensions, Inches			Weight Lbs.	Consumer Net Price
			Primary	Secondary			Height	Depth	Width		
S-448-Q	Single or P-P plates to line. 30 db hum bucking.	20-20,000	20,000 C.T. 12,500 C.T. 5000-3125	500 C.T. 200 C.T.-333 250-125-50	15	2 +18 dbm▼	3 $\frac{1}{2}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$	1 $\frac{3}{4}$	\$19.20
S-510-F	P-P plates to speaker.	20-30,000	10,000 C.T. 8000 C.T.	16-8	40	4 10	2 $\frac{7}{8}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$	2	16.50
S-526-F	P-P plates to speaker.	20-30,000	6600 C.T. 5000 C.T.	16-8-4	60	6 20	4 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{3}{4}$	3 $\frac{3}{4}$	21.00
S-542-F	P-P plates to speaker.	20-30,000	5000 C.T. 4000 C.T.	16-8-4	140	14 40	5 $\frac{1}{8}$	3 $\frac{3}{8}$	3 $\frac{1}{8}$	6	26.25



PEERLESS

ELECTRICAL PRODUCTS



Frequency response is guaranteed on all 20-20 plus transformers

INPUT TRANSFORMERS (20-20 PLUS)

Type Number	Descriptive Data	Max. Level ▼	Impedance, Ohms Primary Secondary	Primary Max.	DC MA. Unbal.	Dimensions, Inches Height Depth Width	Weight Lbs.	Consumer Net Price
K-241-D	Frequency response, ±1 db: 10-25,000 cps. Primary balanced to attenuate longitudinal currents in excess of 50 db. Sec. may be used single ended or in P-P. Has 2 sec. windings with bal. cap. to grd. Electrostatic shield is provided between pri. and sec. Has 90 db electromagnetic shielding. Insertion loss 1 1/4 db. Transformer will operate into open circuit or resistive load. Frequency resp. down less than 1 db at 15 KC. when operated into resistive load shunted with 120 MMFD. cap. High power rating makes transf. suitable for use as output transf.	+8 dbm	500-280- 125-31 70,000 • or 600-340- 84,000 • 150-37.5	0	—	2 3/4 1 1/2 2	1	\$30.00

OUTPUT TRANSFORMERS (20-20 PLUS)

S-217-D	Frequency response: ±1 db: 5-65,000 cps. Pri. may be used single ended or P-P. Sec. windings have bal. cap. to grd. Has C.T. tertiary of 24.5 ohms which may be used for feedback or grnded. for electrostatic shield. Parallel feed is required. Astatic balance and electromagnetic shield provide approx. 5.0 db of shielding. Insertion loss 0.5 db. Transf. may be used as excellent input. transf. to either single or P-P grids. When used this way balanced low impedance winding provides excellent line termination.	+20 dbm	12,500 600-300 3125 150-75 Tert—See Data	25	0	3 1/4 1 1/2 2	1 1/4	\$38.40
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MATCHING TRANSFORMERS (20-20 PLUS)

E-204-D	Frequency response: ±1 db: 5-80,000 cps. Electrostatic shield. Astatic balance and electromagnetic shield provide approx. 50 db magnetic shielding. Attenuates longitudinal currents 80 db in bal. circuit in freq. range up to 70,000 cps. Insertion loss 0.4 db.	+23 dbm	500 C.T. 500 C.T. 125 C.T. 125 C.T. or 600 C.T. 600 C.T. 150 C.T. 150 C.T.	100	0	3 1/4 1 1/2 2	1 1/4	\$40.20
As a Hybrid Transformer	This precise matching transf. is an excellent hybrid unit for operation from two 250/300 ohm sources. Balancing resistor of approx. 125/150 ohms required in pri. circuit. For max. attenuation between sources the exact value of resistor should be determined from measurements made in circuit where transf. is used. Correct value will yield average attenuation of 27 to 30 db with a max. attenuation of approx. 50 db at some point between 500 cps and 1,000 cps.							
				Total Pri.		Impedances, Ohms Pri. 1 Pri. 2	Sec.	Max. Level ▼
				500		250 250	500-125	+23 dbm
				or		or	or	
				600		300 300	600-150	

HIGH LEVEL OUTPUT TRANSFORMERS (20-20 PLUS)

Type Number	Descriptive Data	Impedance, Ohms Primary Secondary	Pri. DC MA Per Winding Max. Unbal.	Max. Level ▼	Dimensions, Inches Height Depth Width	Weight Lbs.	Consumer Net Price
S-232-Q	Frequency response, ±1 db: 10-100,000 cps. Insertion loss 0.6 db. (See descriptive data below)	6600 C.T. 16, 8, 1650 C.T. 4, 1.	70 7 140 14	+43 dbm (20 watts) See Data	4 1/8 3 1/8 3 1/8	3 1/4	\$31.50
S-238-Q	Frequency response, ±1 db: 10-75,000 cps. Insertion loss 0.6 db. (See descriptive data below)	10,000 C.T. 16, 8, 2500 C.T. 4, 1.	50 5 100 10	+43 dbm (20 watts) See Data	4 1/8 3 1/8 3 1/8	3 1/4	\$31.50
S-258-Q	Frequency response, ±1 db: 10-100,000 cps. Insertion loss 0.4 db. (See descriptive data below)	5000 C.T. 16, 8, 1250 C.T. 4, 1.	120 12 240 24	+46 dbm (40 watts) See Data	4 3/8 3 3/8 3 1/2	6 1/2	\$42.00
S-271-S	Frequency response, ±1 db: 10-100,000 cps. Insertion loss 0.3 db. (See descriptive data below)	5000 C.T. 16, 8, 1250 C.T. 4, 1.	200 20 400 40	+49 dbm (80 watts) See Data	6 3/8 5 1/8 5 1/8	18	\$54.00
S-273-S	Frequency response, ±1 db: 10-80,000 cps. Insertion loss 0.3 db. (See descriptive data below)	8000 C.T. 16, 8, 2000 C.T. 4, 1.	125 12 250 25	+49 dbm (80 watts) See Data	6 3/8 5 1/8 5 1/8	18	\$54.00

DESCRIPTIVE DATA, GENERAL

Maximum rated operating level ▼ applies to frequency range 20-20,000 cps. Power rating is 1/2 at 15 cps, 1/4 at 10 cps. Full power (60 cps) primary open circuit inductance is approximately 100 Henrys for each 1000 ohms of primary impedance. Leakage inductance, secondary referred to total primary, is approximately 1 mh per 1000 ohms of primary impedance. Leakage inductance, half primary to half primary is approximately 1 mh per 1000 ohms of primary impedance. Can be used between half and double of rated impedances. For halved impedances, power ratings are doubled. For doubled impedances, power ratings are halved. Secondary may be operated with either end, or C.T. grounded.

IMPEDANCE MATCHING AUTO TRANSFORMER (20-20 PLUS)

Type Number	Descriptive Data	Impedance, Ohms	Insertion Loss	Max. Level ▼	Dimensions, Inches Height Depth Width	Weight Lbs.	Consumer Net Price
A-262-E	Frequency response, ±1 db: 10-100,000 cps. May be used in any combination of rated impedances, step-up or step-down.	16, 8, 4 or 8, 4, 2	.5 db. or 1.0 db.	48.7 dbm (75 watts) or 44.7 dbm (30 watts)	4 1/8 3 1/8 3 1/8	5 3/4	\$18.60