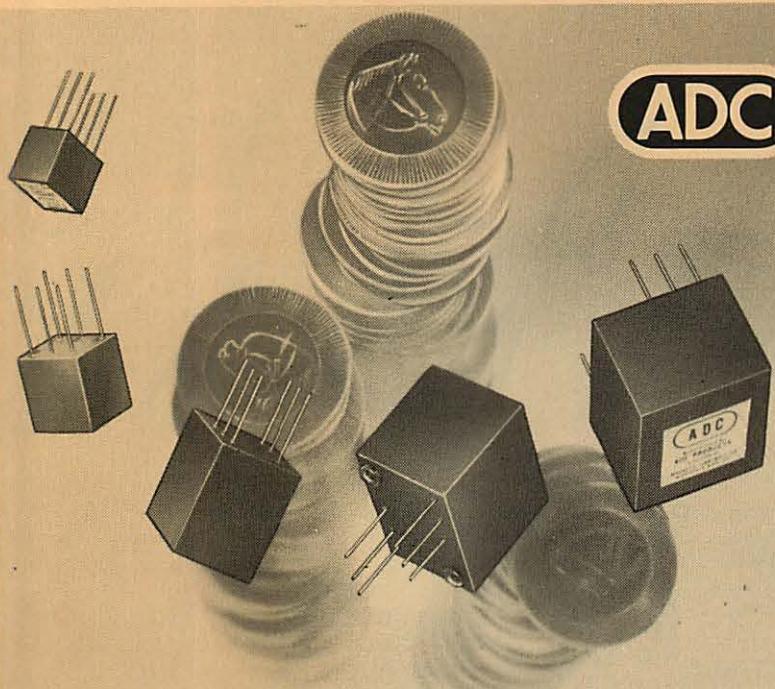


ADC

ADC PRODUCTS, INC.

MINNEAPOLIS, MINNESOTA


**"BLUE CHIP"
TRANSFORMERS**
**62 TYPES
5 DIFFERENT SIZES**

Tiny, plastic cased, Blue Chip transformers for printed circuit applications, are available for a wide choice of power ratings.

Five different sizes, from .10 to 1.2 cubic inches with a total of 62 new ratings are listed below to indicate the available power levels for both voice frequency range and extended frequency operation. These ratings take into account not only power handling capacities at minimum frequencies, but also total harmonic distortion under stated conditions. Within the limits shown on the rating charts, variations in both power and distortion levels are possible depending upon the minimum operating frequency.

Blue Chip transformers meet Mil-T-27A, Grade 5, Class S requirements. These versatile transformers are available from ADC, or through your distributor.

CATALOG NUMBER	PRIMARY IMPED.— OHMS	SECONDARY IMPED.— OHMS	PRIMARY-SECONDARY DC RESISTANCE—OHMS	MAX. DC IN PRIM. MA.
324-6A	*100K-CT	1000-CT	3300	.70
324-6B	25K-CT	1000-CT	2800	.150
124-6C	10K-CT	10K-CT	1100	1400
324-6D	10K-CT	1500-CT	1100	180
324-6E	10K-CT	600-CT	1100	.75
224-6F	4000-CT	10K-CT	440	1400
324-6G	1000-CT	600-CT	110	.75
324-6H	1000-CT	4	110	0.5
224-6J	600-CT	25K-CT	65	3500
124-6K	600-CT	600-CT	65	.75
324-6L	600-CT	60	65	7
324-6M	600-CT	4	65	0.5

★Max. power level: 10 mw at 300 cps.

Pin Diameter:
.030"
Pin Length: 1/2"
Weight: 0.15 oz.

RESPONSE: ± 2 DB 300 to 100,000 CPS.
DISTORTION: 10% at 30 MW, 300 to 100,000
CPS, except as noted.

324-5A	100K-CT	1000-CT	6000	.60	0
324-5B	25K-CT	1000-CT	2800	.120	0
124-5C	10K-CT	10K-CT	1100	1200	1
324-5D	10K-CT	1500-CT	1100	.200	1
324-5E	10K-CT	600-CT	1100	.75	1
224-5F	4000-CT	10K-CT	440	1200	1.5
324-5G	1000-CT	600-CT	100	.60	3
324-5H	1000-CT	4	100	0.4	3
224-5J	600-CT	25K-CT	65	3500	4
124-5K	600-CT	600-CT	65	.75	4
324-5L	600-CT	60	65	7	4
324-5M	600-CT	4	65	0.5	4

★Max. power level: 10 mw at 300 cps.

Pin Diameter:
.030"
Pin Length: 1/2"
Weight: 0.4 oz.

RESPONSE: ± 1 DB 200 to 50,000 CPS.
DISTORTION: 10% at 150 MW, 200 to 50,000
CPS.

324-4B	25K-CT	1000-CT	2800	120	0
124-4C	10K-CT	1100	1200	1	1
324-4D	10K-CT	1500-CT	1100	.180	1
324-4E	10K-CT	600-CT	1100	.75	1
324-4F	10K-CT	4	1100	0.5	1
224-4G	4000-CT	10K-CT	440	1200	1.5
324-4H	1500-CT	15	165	2	2.5
324-4I	1000-CT	600-CT	110	.75	3
324-4K	1000-CT	4	110	0.5	3
224-4L	600-CT	25K-CT	65	3000	4
124-4M	600-CT	600-CT	65	.75	4
324-4N	600-CT	60	65	7	4
324-4P	600-CT	15	65	2	4
324-4Q	600-CT	4	65	0.5	4
224-4R	250	600-CT	30	.75	7

★Max. power level: 10 mw at 300 cps.

Pin Diameter:
.030"
Pin Length: 1/2"
Weight: 0.9 oz.

RESPONSE: ± 1 DB 200 to 20,000 CPS.
DISTORTION: 10% at 750 MW, 200 to 20,000
CPS.

324-3A	10K-CT	10K-CT	800	1100	1
324-3B	10K-CT	600-CT	800	.65	1
324-3C	10K-CT	4	800	0.5	1
324-3D	1500-CT	15	110	1.6	2.5
324-3E	1000-CT	600-CT	75	.65	3
324-3F	1000-CT	4	75	0.5	3
224-3G	* 600-CT	25K-CT	45	2800	4
T24-3H	600-CT	600-CT	45	.65	4
324-3I	600-CT	60	45	7	4
324-3K	600-CT	15	45	1.6	4
324-3L	600-CT	4	45	0.5	4
324-3M	250	600-CT	20	.65	7

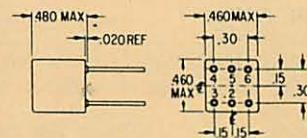
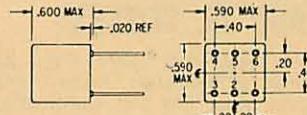
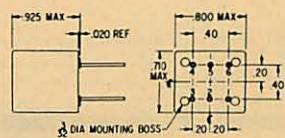
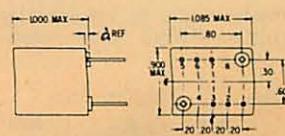
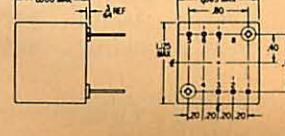
★Max. power level: 2.5 w.

Pin Diameter:
.030"
Pin Length: 1/2"
Weight: 2.5 oz.
Mounting: 2—
4x40 inserts,
0.6"×0.8".

RESPONSE: ± 1 DB 100 to 10,000 CPS.
DISTORTION: 1.5% at 50 MW, 100 to 10,000
CPS, or 10% at 3.5 W, 200 to 10,000 CPS,
except as noted.

124-2A	* 10K-CT	10K-CT	700	900	1
324-2B	* 10K-CT	600-CT	700	.55	1
324-2C	* 10K-CT	4	700	0.4	1
324-2D	1500-CT	15	100	1.5	2.5
324-2E	1000-CT	600-CT	65	.55	3
324-2F	1000-CT	4	65	0.4	3
124-2H	600-CT	600-CT	40	.55	4
324-2I	600-CT	60	40	6	4
324-2K	600-CT	15	40	1.5	4
324-2L	600-CT	4	40	0.4	4
224-2M	250	600-CT	16	.55	7

★Max. power level: 6 w.

6 SIZE CASE DATA

5 SIZE CASE DATA

4 SIZE CASE DATA

3 SIZE CASE DATA

2 SIZE CASE DATA


ALL RATINGS BASED UPON MAXIMUM UNBALANCED DC IN PRIMARY AS LISTED
ALL CASED DIMENSIONS ARE MAXIMUM



ADC PRODUCTS, INC.

MINNEAPOLIS, MINNESOTA

POWER TRANSFORMERS FOR MILITARY AND INDUSTRIAL APPLICATIONS

Reliability, minimum size and long life under rugged environmental conditions are prime requisites in today's military electronic equipment. To meet these modern standards, ADC offers a complete line of hermetically sealed power transformers. Designed to meet MIL-T-27A specifications and utilizing MIL cases and mounting dimensions, these units offer our customers a ready source for prototype and produc-

tion applications. All military contractors and commercial electronic engineers with stringent environmental conditions will find these carefully rated units ideally suited. For those applications where hermetic sealing is not necessary, we offer the conservative transformer designs of our hermetically sealed line, in drawn steel cases of MIL size and mounting dimensions with phenolic terminal plates and solder lug terminals.

POWER TRANSFORMERS—60 Cycle

ADC offers these standard power transformer designs to cover a wide range of requirements for electronic circuit application. They are available in standard MIL case sizes, hermetically sealed to meet all requirements of MIL-T-27A, Grade 4, Class R, life expectancy X. Maximum operating altitude is 10,000 feet.

The same electrical ratings are also available as commercial grade fully enclosed units for non-military applications in the same MIL case sizes. This version is furnished with a phenolic terminal board and heavy duty solder lug terminals. Mounting screws and tapped inserts provide the same mounting centers as MIL-T-27A versions.

**COMBINATION PLATE AND FILAMENT TRANSFORMERS**

PRIMARY: 105/115/125 V., 50-60 CPS

Catalog No. Comm'l Case Hermetic Seal	Plate Winding AC Volts	Filament Windings		MIL Case
		DC Ma	DC Volts	
522A	523A	250-0-250 C Input	20 300	6.3 CT/5 2 FA
522B	523B	300-0-300 C Input	60 310	5 2 HA
				6.3 CT 2
522C	523C	350-0-350 C Input	110 355	5 2 JA
		L Input	265	6.3 CT 4
522D	523D	375-0-375 C Input	150 380	5 3 LA
		L Input	280	6.3 CT 5
522E	523E	385-0-385 C Input	200 360	5 3
		L Input	280	6.3 CT 5
				6.3 CT 2 MA
522F	523F	500-0-500 L Input	300 400	6.3/5 6
				6.3 CT 6 NA

FILAMENT TRANSFORMERSPRIMARY:
105/115/125 V., 50-60 CPS

Catalog No. Commercial Case Hermetic Seal	Sec. Volts	Sec. Amps.	Insulation Volts RMS	MIL Case
522FA	523FA	2.5 CT	5.5	3,500 FA
522FB	523FB	2.5 CT	10.0	7,500 GA
522FC	523FC	2.5 CT	15.0	10,000 JA
522FD	523FD	5.0 CT	4	3,500 GA
522FE	523FE	5.0 CT	10	5,000 HA
522FF	523FF	5.0 CT	20	10,000 MA
522FG	523FG	6.3 CT	3.0	2,500 FA
522FH	523FH	6.3 CT	5.5	2,500 GA
522FJ	523FJ	6.3 CT	10	2,500 JB
522FK	523FK	6.3 CT	20	2,500 KA
522FL	523FL	12.6 CT	2	2,500 GA

POWER TRANSFORMERS—400 Cycle

These items are especially designed for maximum performance in 380 to 1500 CPS applications, with maximum altitude ratings of 50,000 feet. They are hermetically sealed to meet all requirements of MIL-T-27A, Grade 4, Class R. Standard MIL case sizes and construction are used.

COMBINATION PLATE AND FILAMENT TRANSFORMERS

PRIMARY: 115 V., 380-1500 CPS

Catalog No. Comm'l Case Hermetic Seal	Plate Winding AC Volts	Filament Windings		MIL Case
		DC Ma	Volts / Amps	
512A	513A	240-0-240 C Input	20	6.3 CT 1.5 AJ
512B	513B	250-0-250 C Input	40	6.3 CT 2.5 EA
512C	513C	300-0-300 C Input	80	6.3 CT 5 GA
			6.3/5V 2	
512D	513D	350-0-350 C Input	150	6.3 CT 4 HA
			6.3/5V 3	
512E	513E	450-0-450 C Input	200	6.3 CT 8 JA
			6.3/5V 3	

**FILAMENT TRANSFORMERS**PRIMARY:
115 V., 380-1500 CPS

Catalog No.	Commercial Case Hermetic Seal	Sec. Volts	Sec. Amps	Insulation Volts RMS	MIL Case
512FA	513FA	6.3 CT	1	1,500	AH
512FB	513FB	6.3 CT	3	1,500	AJ
512FC	513FC	6.3 CT	5.5	2,500	EA
512FD	513FD	6.3 CT	10	2,500	FA
512FE	513FE	6.3 CT	20	2,500	GA
512FF	513FF	26 CT	1	2,500	EA
512FG	513FG	26 CT	3	2,500	FA

MILITARY STANDARD TRANSFORMERS

These Military Standard transformers have been specified by ASEA and are established by the three Military Services and the transformer industry as standards for Military transformer applications. Each item is available as either Grade 1 or Grade 4 (ruggedized) as requested. Tests have been conducted in ADC's environmental laboratory which indicate that these units will meet the requirements of MIL-T-27A, Grade 4, Class R operating temperature; life expectancy X 10,000 hours minimum.

MILITARY STANDARD POWER TRANSFORMERS

Military Part No.	Catalog No.	Type Designation	Secondary AC Volts	DC Volts	Sec #2 DC Volts	Sec #3 DC Volts
MS-90026	521A	TF 4RX 03HA001	200-100-0-100-200	70 140	6.3/5 2	6.3 3
MS-90027	521B	TF 4RX 03JB002	325-0-325	70 250	6.3/5 2	6.3 4
MS-90028	521C	TF 4RX 03KB006	325-0-325	150 240	6.3 5 5	6.3 3
MS-90029	521D	TF 4RX 03LB003	400-0-400	175 290	5 3	6.3 8
MS-90030	521E	TF 4RX 03MB004	450-0-450	250 320	5 3	6.3 8
MS-90031	521F	TF 4RX 02KB001	350-0-350	250 250	--	--
MS-90032	521G	TF 4RX 02LB002	550-0-550	250 400	--	--
MS-90036	521H	TF 4RX 02NB003	800-0-800	250 575	--	--

NOTE: 1. Primaries 105/115/125 V., 54-66 CPS.
2. Secondary #1 DC voltage based upon inductive input filter.
3. Max. operating altitude 10,000 ft.
4. These items are also available as Grade 1 components.

MILITARY STANDARD FILAMENT TRANSFORMERS

Military Part No.	Catalog No.	Type Designation	Secondary Volts	DC Amps	Insulation Volts RMS
MS-90016	521M	TF 4RX 01EB002	2.5	3.0	2500
MS-90017	521N	TF 4RX 01GB003	2.5	10	2500
MS-90018	521P	TF 4RX 01FB004	5.0	3.0	2500
MS-90019	521Q	TF 4RX 01HB005	5.0	10	2500
MS-90020	521R	TF 4RX 01FB006	6.3	2.0	2500
MS-90021	521S	TF 4RX 01GB007	6.3	5.0	2500
MS-90022	521T	TF 4RX 01JB008	6.3	10	2500
MS-90023	521U	TF 4RX 01KB009	6.3	20	2500
MS-90024	521V	TF 4RX 01JB012	2.5	10	10000
MS-90025	521W	TF 4RX 01KB013	5.0	10	10000

NOTE: 1. Primaries 105/115/125 V., 54-66 CPS.
2. Max. operating altitude 10,000 ft.
3. These items are also available as Grade 1 components.



ADC PRODUCTS, INC.

MINNEAPOLIS, MINNESOTA

INDUCTORS FOR MILITARY AND INDUSTRIAL APPLICATIONS

ADC's line of inductors are circuit running mates to ADC's power transformers. They are available hermetically sealed, to meet MIL-T-27A requirements Grade 4, Class R, life expectancy X. For commercial applications, where hermetic

sealing is not necessary, these same ratings are available in MIL cases and mounting dimensions, but with phenolic terminal board and solder lug terminals.

FOR 50-60 CYCLE POWER SUPPLIES

Catalog No.	Inductance Hertzies	DC Current MA	DC Resist- ance Ohms	Insulation Volts RMS	MIL Case
422A	423A	15	20	700	1000 AJ
422B	423B	20	40	475	2500 EB
422C	423C	15	60	230	2500 FA
422D	423D	12	80	175	2500 FA
422E	423E	10	110	175	2500 GA
422F	423F	8	150	100	2500 HA
422G	423G	8	200	85	2500 JA
422H	423H	8	250	85	2500 KB
422J	423J	8	325	55	2500 LA
422K	423K	4	500	30	2500 LA
422L	423L	5/25	250/25	160	2500 KB
422M	423M	5/25	325/30	110	2500 LA

**FOR 380-1500 CYCLE POWER SUPPLIES**

Catalog No.	Inductance Hertzies	DC Current MA	DC Resist- ance Ohms	Insulation Volts RMS	MIL Case
422V	423V	2.5	50	175	2500 AH
422W	423W	5	50	350	2500 AJ
422X	423X	2	80	250	2500 AJ
422Y	423Y	2	150	100	2500 EB
422Z	423Z	2	200	100	2500 EA

MILITARY STANDARD INDUCTORS (power)

These Military Standard inductors have been specified by ASESA and are established by the three military services and the transformer industry as standards for military inductor applications. They are hermetically sealed to meet all MIL-T-27A requirements Grade 1, Class R, life expectancy X.

Military Part No.	Catalog No.	Type Designation	Inductance Series	DC Resistance Parallel Ohms	Insulation Volts RMS
MS90009	421A	TF 1RX 04FA001	16 hy .08 a	4 hy .16 a	1-2 295 2400
MS90010	421B	TF 1RX 04GA002	25 hy .08 a	6.25 hy .16 a	1-2 300 2400
MS90011	421C	TF 1RX 04HA003	40 hy .08 a	10 hy .16 a	1-2 450 2400
MS90013	421D	TF 1RX 04HA005	16 hy .125 a	4 hy .25 a	1-2 145 3800
MS90014	421E	TF 1RX 04JB006	25 hy .125 a	6.25 hy .25 a	3-4 225 3800
MS90037	421F	TF 1RX 04KA007	40 hy .125 a	10 hy .25 a	1-2 240 5900
MS75000	421G	TF 1RX 04LA009	16 hy .20 a	4 hy .40 a	3-4 80 5900
MS75001	421H	TF 1RX 04MA010	25 hy .20 a	6.25 hy .40 a	3-4 100 5900
MS75002	421J	TF 1RX 04NA012	16 hy .315 a	4 hy .63 a	1-2 45 5900
MS75003	421K	TF 1RX 04YY013	25 hy .315 a	6.25 hy .63 a	1-2 70 5900

NET PRICE LIST

(Prices subject to change without notice)

CAT. NO.	NET PRICE	CAT. NO.	NET PRICE	CAT. NO.	NET PRICE	CAT. NO.	NET PRICE
108A	8.25	222C	25.20	324-2F	6.60	419CU thru DA	9.60
103A	3.15	222D	19.80	324-2J	6.60	422H	10.20
103B	3.39	222E	19.80	324-2K	6.60	422J	12.90
103C	3.30	222F	17.40	324-2L	6.60	422K	12.00
104A	8.70	222G	17.40	324-3B	7.50	422L	10.20
104B	9.54	223A	24.90	324-3C	6.90	422M	12.90
114A	23.85	223B	24.90	324-3D	6.30	422V	7.05
114B	19.80	223C	28.20	324-3E	6.90	422W	6.00
114C	23.85	223D	21.60	324-3F	6.30	422X	6.00
114E	23.85	223E	21.60	324-3J	6.30	422Y	6.90
114F	23.85	223F	18.30	324-3K	6.30	422Z	7.20
114G	18.00	223G	18.30	324-3L	6.30	419FE	8.70
121A	14.40	224-2M	6.60	324-4B	7.80	423A	6.60
121B	14.40	224-3G	7.80	324-4D	7.20	423B	7.65
122A	24.30	224-4G	7.20	324-4E	7.20	423C	8.10
122B	25.20	224-4L	7.80	324-4F	6.60	423D	8.10
122C	24.30	224-4R	6.00	324-4H	6.00	423E	9.15
122D	16.80	224-5F	6.90	324-4J	6.60	423F	10.20
122E	19.80	224-5J	7.80	324-4K	6.00	423G	12.00
122F	15.90	224-6F	6.60	324-4N	6.00	423H	12.90
122G	22.20	224-6J	7.20	324-4P	6.00	423I	15.90
123A	26.40	308E, F	7.50	324-5A	8.70	423J	15.90
123B	27.30	308G, H	9.00	324-5B	7.80	423K	14.70
123C	26.40	314A	20.40	324-5D	6.90	423L	12.90
123D	17.40	314B	18.00	324-5E	6.90	423M	15.90
123E	21.30	320A thru F	20.85	324-5G	6.90	512A	11.70
123F	16.80	320Y, Z	20.85	324-5H	5.70	512B	12.60
124-2A	8.10	321A thru E	12.90	324-5L	5.70	512C	17.10
124-2H	7.20			324-5M	5.70	512D	18.90
124-3A	7.80			324-6A	7.50	512E	20.55
124-3H	6.90			324-6B	7.20	512F	9.00
124-4C	7.20			324-6D	6.60	512G	9.00
124-4M	6.60			324-6E	6.60	512H	11.70
124-5C	6.90			324-6G	6.00	512I	11.70
124-5K	6.90			324-6H	5.40	512J	12.45
124-6C	6.60			324-6L	5.40	512K	21.45
124-6K	6.00			324-6M	5.40	512L	23.70
208A thru F	7.50			408D	6.75	512M	23.70
208G	9.00			419AL thru AW	6.75	512N	23.70
214A	23.70			419AY thru BE	7.50	512O	23.70
214B	16.20			419BG thru BN	7.50	512P	23.70
214C	23.70			419BQ thru BS	9.00	512Q	23.70
214H	15.45			419BU	9.00	512R	23.70
214J	16.80					512S	23.70
214L	16.80					512T	23.70
220A thru D	20.85					512U	23.70
221A	15.45					512V	23.70
221B	13.20					512W	23.70
222A	22.50					512X	23.70
222B	22.50					512Y	23.70
						512Z	23.70
						513A	12.60
						513B	14.25
						513C	21.45
						513D	23.70
						513E	25.65
						513F	11.25
						513G	12.15
						513H	19.80
						513I	21.00
						513J	21.60
						513K	21.60
						513L	21.60
						513M	21.60
						513N	21.60
						513O	21.60
						513P	21.60
						513Q	21.60
						513R	21.60
						513S	21.60
						513T	21.60
						513U	21.60
						513V	21.60
						513W	21.60
						513X	21.60
						513Y	21.60
						513Z	21.60
						514A	12.60
						514B	14.25
						514C	21.45
						514D	23.70
						514E	25.65
						514F	11.25
						514G	12.15
						514H	19.80
						514I	21.00
						514J	21.60
						514K	21.60
						514L	21.60
						514M	21.60
						514N	21.60
						514O	21.60
						514P	21.60
						514Q	21.60
						514R	21.60
						514S	21.60
						514T	21.60
						514U	21.60
						514V	21.60
						514W	21.60
						514X	21.60
						514Y	21.60
						514Z	21.60
						515A	11.25
						515B	12.15
						515C	19.80
						515D	21.00
						515E	21.60
						515F	21.60
						515G	21.60
						515H	21.60
						515I	21.60
						515J	21.60
						515K	21.60
						515L	21.60
						515M	21.60
						515N	21.60
						515O	21.60
						515P	21.60
						515Q	21.60
						515R	21.60
						515S	21.60
						515T	21.60
						515U	21.60
						515V	21.60
						515W	21.60
						515X	21.60
						515Y	21.60
						515Z	21.60
						516A	12.60
						516B	14.25
						516C	21.45
						516D	23.70
						516E	25.65
						516F	11.25
						516G	12.15
						516H	19.80
						516I	21.00
						516J	21.60
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ADC PRODUCTS, INC.

MINNEAPOLIS, MINNESOTA

AUDIO TRANSFORMERS FOR MILITARY AND COMMERCIAL APPLICATIONS

ADC offers the following designs to cover a wide range of standard audio applications, from low power transistors through heavy duty output circuits. They are conservatively rated at $\pm \frac{1}{2}$ db from 30 to 15,000 cycles at the maximum rated power. Each is designed for minimum insertion loss, is fully impregnated before potting and rated for dependable continuous duty operation.

These audio transformers are available in standard MIL cases, hermetically sealed to meet all requirements of MIL-T-27A. THE SAME RATINGS ARE ALSO AVAILABLE AS COMMERCIAL GRADE COMPONENTS, featuring the lower cost construction of a phenolic terminal board with solder lug terminals in the same drawn MIL cases.

INPUT TRANSFORMERS Response $\pm \frac{1}{2}$ db, 30-15,000 cps

Catalog No. Com- mercial Case Seal	Primary Imped- ance Rating (Ohms)	Second- ary Imped- ance Rating (Ohms)	Hum Max. Level	Reduc- tion	Case Size
222A 223A Line to Single or Push Pull Grids.	600 ¹	60,000 ¹ Split	+ 10 dbm	-65 db	AJ
222B 223B Low Impedance Line to Grid.	12.5/50/ 200	80,000	+ 10 dbm	-65 db	AJ
222C 223C Line and Bridging to Single or Push Pull Grids. ¹⁻⁴	150/600/ 15,000	60,000 ¹ Split	+ 10 dbm	-65 db	AJ
222D 223D High Impedance Pickup or Plate to Push Pull Grids.	10,000 (10MA DC)	80,000 ¹ Split	+ 22 dbm	-35 db	EA
222E 223E Push Pull Plates to Push Pull Grids.	20,000 ¹ Split	90,000 ¹ Split	+ 24 dbm	-35 db	EA

MILITARY STANDARD AUDIO TRANSFORMERS

These Military Standard audio transformers have been specified by ASEA and are established by the three Military Services and the transformer industry as standards for Military transformer applications. Tests have been conducted in ADC's environmental laboratory which indicate that these units will meet the requirements of MIL-T-27A, Grade 1, Class R operating temperature, life expectancy X (10,000 hours minimum).

Cat- alog No.	MIL-T-27A Classification	MIL-T-27A Part No.	Impedance Application	Oper- ating (Ohms)	Pri. Level	DCMA Bal. Unbal.
221A TF 1RX 15AJ001	MS-90000	Push Pull Plates to Push Pull Grids	Pri. 10,000 CT Sec. 90,000 CT 22,500 CT	15 dbm	--	10
121A TF 1RX 16AJ002	MS-90001	Line to Voice Coll	Pri. 600 CT (150) Sec. 4/8/16	2 W	--	--
221B TF 1RX 10AJ001	MS-90002	Line to Push Pull Grids	Pri. 600 CT (150) Sec. 135,000 CT	15 dbm	--	--
121B TF 1RX 16AJ001	MS-90003	Line to Line	Pri. 600 CT (150) Sec. 600 CT (150)	15 dbm	--	--
321A TF 1RX 13AJ001	MS-90004	Plate to Line	Pri. 7600/4800 Sec. 600 CT (150)	2 W	--	40
321B TF 1RX 13AJ002	MS-90005	Plate to Voice Coll	Pri. 7600/4800 Sec. 4/8/16	2 W	--	40
321C TF 1RX 13AJ003	MS-90006	Push Pull Plates to Line	Pri. 15,000 CT Sec. 600 CT (150)	2 W	--	10
321D TF 1RX 13AJ004	MS-90007	Push Pull Plates to Line	Pri. 24,000 CT Sec. 600 CT (150)	1 W	20	1
321E TF 1RX 13AJ005	MS-90008	Push Pull Plates to Line	Pri. 60,000 CT Sec. 600 CT (150)	.5 W	20	1

OUTPUT TRANSFORMERS Response $\pm \frac{1}{2}$ db, 30-15,000 cps (Power Response at Rated Output)

Catalog No. Com- mercial Case Seal	Her- metic Case Seal	Application	Primary Impedance (Ohms)	Secondary Impedance (Ohms)	Max. Level	Case Size
322A 323A ⁴		Plate to Line	15,000 (10 MA DC)	600/250 (150/62.5) ²	+ 20 dbm (.1 W)	EB
322B ³	323B ⁵	Plate to Voice Coll	5,000 (40 MA DC)	16/8/4	+ 37 dbm (5 W)	FA
322C	323C	Push Pull Plates to Line	20,000 CT	600/250 (150/62.5) ²	+ 30 dbm (1 W)	EB
322D	323D	Push Pull Plates to Line and Voice Coll	10,000 CT	600 (150) ²	+ 40 dbm (10 W)	GA
322E	323E ¹	Push Pull Plates to Voice Coll ⁴	9,000/2,250 Split ²	16/8/4	+ 40 dbm (10 W)	GA
322F	323F ¹	Push Pull Plates to Voice Coll ⁴	10,000 Split ²	16/8/4	+ 43 dbm (20 W)	JA
322G	322G ¹	Push Pull Plates to Voice Coll ⁴	8,000/1,600 Split ²	16/8/4	+ 42 dbm (15 W)	JB
322H	323H ¹	Push Pull Plates to Voice Coll ⁴	5,000/3,000 Split ²	16/8/4	+ 43 dbm (20 W)	JA
322J	323J ¹	Push Pull Plates to Voice Coll ⁴	6,600/1,650 Split ²	16/8/4	+ 45 dbm (30 W)	KA
322K	323K ¹	Push Pull Plates to Voice Coll ⁴	3,500/700 Split ²	16/8/4	+ 48 dbm (70 W)	LA
322L	323L ¹	Push Pull Parallel Plates to Voice Coll	2,500/1,500 Split ²	16/8/4	+ 49 dbm (80 W)	MA
322M	323M ¹	Push Pull Class A Transistors to Voice Coll	48/16/8 Split ²	16/8/4	+ 47 dbm (50 W)	KA
322N	323N ¹	Class A Transistor to Voice Coll	10 (1.25a. DC)	16/8/4	+ 38 dbm (7 W)	JB
322P	323P ¹	Push Pull Transistors to Voice Coll	48/32 CT	16/8/4	+ 40 dbm (10 W)	GA

NOTES:

- ¹These items are not normally carried in stock.
- ²"Split" indicates 2 separate, symmetrical windings. Impedances shown are for series connection. Where impedances are shown in parenthesis, they indicate the impedances resulting when windings are connected in parallel.
- ³Balanced, for Williamson type circuit operation.
- ⁴Has primary taps suitable for Screen loading
- ⁵Power response $\pm \frac{1}{2}$ db, 50-15,000 cps.
- ⁶Response is ± 1 db, 30-15,000 cps.

All of these designs are available on special order with output impedances of other values than shown above.

MINIATURE AUDIO TRANSFORMERS

These transformers offer a variety of special design features on a catalog basis for particular circuit and chassis applications. They are available for plug-in and printed circuit applications as well as standard installations. The special cases shown allow the maximum of electrical performance for each type as well as variety and flexibility in mechanical arrangement. All electrical ratings are shown for continuous duty at full specified power levels. Dia. $\frac{3}{8}$ ", Ht. $1\frac{1}{8}$ ", 2-56 Mtg. screws on $11/16$ " centers.

MINIATURE SERIES

Cat. No.	Type	Application	Primary Impedance (Ohms)	Secondary Impedance (Ohms)	Max. Level	Re- sponse
108A	Impedance	Line to Line	50/250/600	50/250/600	+ 8 dbm	± 1 db 30-15,000
208A	Input	Line to Single Grid	50/250/600	80,000	+ 10 dbm	± 1 db 30-15,000
208B	Input	Line to Push Pull Grids	50/250/600	80,000 CT	+ 10 dbm	± 1 db 30-15,000
208C	Input	Low Impedance to Grid	7.5/30	80,000	+ 8 dbm	± 1 db 30-15,000
208D	Interstage	Plate (O DC) to Push Pull Grids	15,000	60,000 CT	+ 10 dbm	± 1 db 30-10,000
208E	Interstage	Plate (3MA DC) to Push Pull Grids	15,000	60,000 CT	+ 10 dbm	± 2 db 200-10,000
208F	Input	Line to Single Grid	50/250/600	500,000	+ 10 dbm	± 3 db 200-30,000
208G	Interstage	Transistor to Transistors (2500 MA DC) Split	10,000	4000/1000 CT	+ 10 dbm	± 2 db 100-10,000
308E	Output	Plate to Line (O DC)	15,000	50/250/600	+ 10 dbm	± 1 db 40-15,000
308F	Output	Plate to Line (3MA DC)	15,000	50/250/600	+ 10 dbm	± 2 db 100-15,000
308G	Output	Push Pull Plates to Line	30,000 CT	50/250/6600	+ 10 dbm	± 1 db 30-15,000
308H	Output	Class B Transistors to Voice Coll	2000/500 CT	16/8/4	+ 23 dbm	± 1 db 100-10,000
408D	Inductor	200 Hy @ 0 DC; 100 Hy @ 2MA DC; 50 Hy @ 4MA DC; 16 Hy @ 10MA DC; 6000 Ohms Resistance				

NOTE: These items are also available, on special request, as plug-in transformers with:

1. Mumetal case $15/16$ " dia. by $1-5/16$ " high. 35 db shielding.
2. Mumetal case plus 1 Mumetal shield $1-1/16$ " dia. by $1\frac{1}{2}$ " high. 65 db shielding.





ADC PRODUCTS, INC.

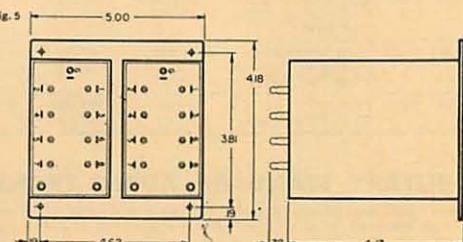
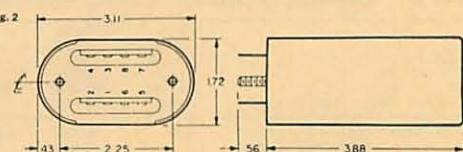
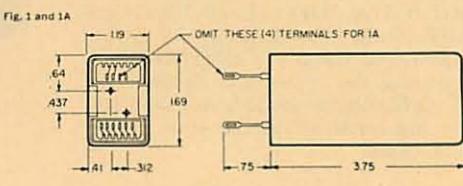
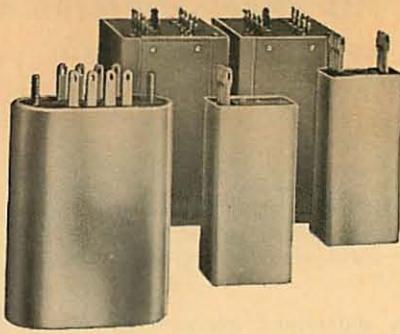
MINNEAPOLIS, MINNESOTA

TELEPHONE COILS

For many years, ADC has been a dependable source of transformers and filters for the telephone and telegraph industry. Recently, we have designed and toolled for additional items in a series of "coils" which are electrically and physically interchangeable with similar components made by Western Electric. These items are listed below with the equivalent Western Electric number. All items in this series can be supplied in MIL cases if desired.

ADC Inductors	W.E. Indr. or Ret.	Fig.	ADC Imped. Trans.	W.E. Repeat Coil	Fig.	ADC Imped. Trans.	W.E. Repeat Coil	Fig.
409BB	149B	2	118A	67E	•	119C	177C	•
409BC	149C	2	113A	91A	5	119D	177D	•
409BD	149D	2	113A	93A	5	112G	189A	1
409E	149E	2	113B	93B	5	112B	189D	1A
409G	149G	2	113F	93F	5	112C	189E	1A
409H	149H	2	113G	93G	5			
409J	149J	2	113H	93H	5			
409K	149K	2	113J	93J	5			
409M	149M	2	109S ¹	94E	2			
409N	149N	2	109T	94F	2	109A	23A	•
409P	149P	2	109J	94G	2	112A ¹	181B	1
409R	149R	2	109K ¹	93H	2	112E	181C	1
405A	152B	•	109V	94K	2	112H	D166840	1A
405H	225A	•	109W	94L	2			
405E	250C	•	109Y	94N	2			
412AC	274C	1A	109Z	94P	2			
412AD	274D	1A	109BB	94S	2			
412AG	274G	1A	109BC	94T	2			
412AH	274H	1A	109BD	94U	2			
412AJ	274J	1A	109BE	94W	2			
412AL	274L	1A	109BF	94Y	2			
412AR	274R	1A	109BG ¹	94AA	2			
412AS	274S	1A	118F	106A	•			
412BB	274AB	1A	118S	119C	•			
412T	307B	1A	118U	119E	•			
412C	307C	1A	109B ¹	120C	2			
412F	307F	1A	109C ¹	120D	2			
412G	307G	1A	109D ¹	120E	2			
412H	307H	1A	109E ¹	120F	2			
412J	307J	1A	109F ¹	120H	2			
412K	307K	1A	109G ¹	120J	2			
412L	307L	1A	109H ¹	120K	2			
412M	307M	1A	109P ¹	120L	2			
412B	307N	1A	109L	146A	•			
412A ¹	307P	1A	109M	146U	•			
412R	307R	1A	119P	170A	•			

¹These represent most commonly used items and are normally carried in stock.
Space did not permit outline drawings for all types. Dimensions will be sent on your request.



ADC REPEATING COILS

104A—Cord Circuit. This repeating coil is designed to have good transmission efficiency for voice frequencies. Low frequency ringing currents are attenuated and circuit will not ring through. Case is heavy steel to eliminate all cross-talk. Core will not saturate at maximum normal current.

104B—Phantom. The 104B Repeating Coil is a 4-winding coil, for use in phantom circuits. The phantom winding (5-6-7-8) is parallel wound. Heavy Formvar wire is used for maximum surge voltage or lightning protection. This coil has good transmission efficiency at both ringing and voice frequencies.

Type	PRI. DCR		SEC. DCR		Case	Screw	Mounting Centers	
	1-2	3-4	5-6	7-8				
104A	10.3	16.5	12.5	14.5	2 1/4 x 1 1/4 x 3 1/2 high	(4) 6-32	1 1/2 x 1 1/2	
104B	16.5	20	24	24	2 1/4 x 2 1/2 x 3 1/2 high	(4) 8-32	1 1/2 x 2 1/4	

INDUCTION COILS

103A—Induction Coil is a 2-winding coil for local battery telephones.

103B—Anti-Sidetone Induction Coil is similar to 103A, but with an additional winding for anti-sidetone connection.

103C—Anti-Sidetone Induction Coil is designed for common battery telephone use.

