

Low Profile Audio Transformers

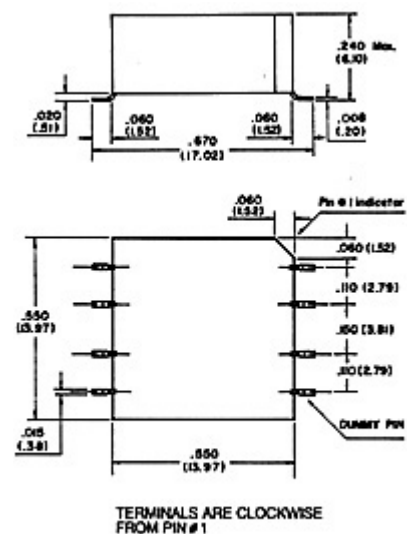
New Surface Mount (.24" Ht. x .55" x.55")

SURFACE MOUNT

PICO surface mount units utilize materials and methods to withstand extreme temperatures of vapor phase, I.R., and other reflow procedures without degradation of electrical or mechanical characteristics.

Specifications

- **MIL-PRF-27:** All units manufactured to MIL-PRF-27. Grade 5, Class S.
- **FREQUENCY RESPONSE:** ± 3 dB, 300 Hz-50 KHz at 1.0 Milliwatt.
- **MAXIMUM DISTORTION:** 5% with rated power level at 1 KHz.
- **DIELECTRIC STRENGTH:** All units tested at 200 V RMS.
- **INSULATION RESISTANCE:** Greater than 10,000 Megohms at 300 V DC.
- **WEIGHT:** 3 Grams
- **OPERATING TEMPERATURE:** -55° C to +130° C
- **TERMINALS:** Solderability per MIL-STD-202, Method 208.
- **THERMAL SHOCK:** 25 Cycles, Method 107, MIL-STD-202, Test Condition -55° C to +130° C.
- **MOISTURE SENSITIVITY LEVEL:** MSL3



All dimensions are in inches, () = MM

Larger size schematic

Low Profile Audio Transformers

PICO Part Number	Primary Impedance Ohms	Secondary Impedance Ohms Split Windings		Power Watts		Primary Unbal DC Current ma	Primary DC Resistance Ohms	Secondary DC Resistance Ohms		Turns/Ratio Prim/Sec		PICO Prices 1-9** (US \$)
		Ser	Par	1 Khz and Higher	300Hz and Higher			Ser Conn	Par Conn	SEC Ser Conn	SEC Par Conn	
78003	10ct	10ct	2.5	.4	.050	31.6	.83	1.16	.29	1:1	2:1	92.81
78005	20ct	8ct	2	.4	.050	22.3	1.66	.93	.23	1.58:1	3.16:1	92.81
78010	20ct	20ct	5	.4	.050	22.3	1.66	2.33	.58	1:1	2:1	92.81
78015	32ct	32ct	8	.4	.050	17.6	2.66	3.73	.93	1:1	2:1	92.81
78020	40ct	40ct	10	.4	.050	15.8	3.33	4.66	1.16	1:1	2:1	92.07
78025	48ct	16ct	4	.4	.050	14.4	4	1.86	.46	1.73:1	3.46:1	84.36
78030	50ct	50ct	12.5	.4	.050	14.1	4.16	5.8	1.45	1:1	2:1	84.36
78035	80ct	32ct	8	.4	.050	11.1	6.66	3.73	.93	1.58:1	3.16:1	92.07
78040	100ct	40ct	10	.4	.050	10	8.33	4.66	1.16	1.58:1	3.16:1	92.07
78045	100ct	100ct	25	.4	.050	10	8.33	11.6	2.91	1:1	2:1	84.36
78050	120ct	12.8ct	3.2	.4	.050	9.1	10	1.49	.37	3.06:1	6.12:1	84.36
78055	120ct	60ct	15	.4	.050	9.1	10	7	1.75	1.41:1	2.83:1	100.90
78060	120ct	120ct	30	.4	.050	9.1	10	14	3.5	1:1	2:1	100.90
78065	150ct	12ct	3	.4	.050	8.2	12.5	1.4	.35	3.54:1	7.08:1	97.68
78070	150ct	50ct	12.5	.4	.050	8.2	12.5	5.8	1.45	1.73:1	3.46:1	100.90
PICO Part Number	Primary Impedance Ohms	Secondary Impedance Ohms Split Windings		Power Watts		Primary Unbal DC Current ma	Primary DC Resistance Ohms	Secondary DC Resistance Ohms		Turns/Ratio Prim/Sec		PICO Prices 1-9** (US \$)
		Ser	Par	1 Khz and Higher	300Hz and Higher			Ser Conn	Par Conn	SEC Ser Conn	SEC Par Conn	
78075	150ct	100ct	25	.4	.050	8.2	12.5	11.6	2.91	1.22:1	2.45:1	100.90
78080	150ct	150ct	37.5	.4	.050	8.2	12.5	17.5	4.37	1:1	2:1	100.90
78085	150ct	600ct	150	.4	.050	8.2	12.5	70	17.5	1:2	1:1	100.90
78090	200ct	200ct	50	.4	.050	7	16.6	23.3	5.83	1:1	2:1	100.90
78095	300ct	12ct	3	.4	.050	5.8	25	1.4	.35	5:1	10:1	100.90
78100	300ct	50ct	12.5	.4	.050	5.8	25	5.8	1.45	2.45:1	4.9:1	100.90
78105	300ct	150ct	37.5	.4	.050	5.8	25	17.5	4.37	1.41:1	2.83:1	100.90
78110	300ct	300ct	75	.4	.050	5.8	25	35	8.75	1:1	2:1	100.90
78115	300ct	600ct	150	.4	.050	5.8	25	70	17.5	1:1.41	1.41:1	91.71
78120	320ct	12.8ct	3.2	.4	.050	5.6	26.6	1.49	.37	5:1	10:1	108.18

78125	400ct	40ct	10	.4	.050	5	33.3	4.66	1.16	3.16:1	6.32:1	108.18
78130	400ct	120ct	30	.4	.050	5	33.3	14	3.5	1.83:1	3.65:1	108.18
78135	400ct	200ct	50	.4	.050	5	33.3	23.3	5.83	1.41:1	2.83:1	108.18
78140	400ct	400ct	100	.4	.050	5	33.3	46.6	11.66	1:1	2:1	98.38
78145	400ct	1000ct	250	.4	.050	5	33.3	116.6	29.16	1:1.58	1.26:1	108.18
78150	400ct	2000ct	500	.4	.050	5	33.3	233.3	58.3	1:2.24	1:1.12	108.18
78155	400ct	4000ct	1000	.4	.050	5	33.3	466.6	116.6	1:3.16	1:1.58	108.18
78160	500ct	12.8ct	3.2	.4	.050	4.5	41.6	1.49	.37	6.25:1	12.5:1	98.38
78165	500ct	16ct	4	.4	.050	4.5	41.6	1.86	.46	5.6:1	11.2:1	98.38
78170	500ct	50ct	12.5	.4	.050	4.5	41.6	5.83	1.45	3.16:1	6.32:1	98.38
78175	500ct	150ct	37.5	.4	.050	4.5	41.6	17.5	4.37	1.83:1	3.65:1	98.38
78180	500ct	500ct	125	.4	.050	4.5	41.6	58.3	14.58	1:1	2:1	108.18
78185	*500ct	500ct	-	.4	.050	4.5	41.6	58.3	14.58	1:1	-	108.18
78190	500ct	600ct	150	.4	.050	4.5	41.6	70	17.5	1:1.1	1.83:1	108.18
78195	600ct	12.8ct	3.2	.4	.050	4.1	50	1.49	.37	6.85:1	13.7:1	108.18
78200	600ct	30ct	7.5	.4	.050	4.1	50	3.5	.875	4.47:1	8.94:1	98.38
78205	600ct	48ct	12	.4	.050	4.1	50	5.6	1.4	3.54:1	7.07:1	98.38
78210	600ct	200ct	50	.4	.050	4.1	50	23.3	5.83	1.73:1	3.46:1	98.38
78215	600ct	600ct	150	.4	.050	4.1	50	70	17.5	1:1	2:1	98.38
78220	*600ct	600ct	-	.4	.050	4.1	50	70	17.5	1:1	-	108.18
78225	600ct	1200ct	300	.4	.050	4.1	50	140	35	1:1.41	1.41:1	98.38
78230	640ct	12.8ct	3.2	.4	.050	3.9	53.3	1.49	.37	7.07:1	14.4:1	98.38
78235	700ct	100ct	25	.4	.050	3.8	58.3	11.6	2.91	2.65:1	5.29:1	98.38
78240	800ct	12.8ct	3.2	.4	.050	3.5	66.6	1.49	.37	7.9:1	15.8:1	108.18
78245	800ct	48ct	12	.4	.050	3.5	66.6	5.6	1.4	4.08:1	8.16:1	100.90
78250	800ct	800ct	200	.4	.050	3.5	66.6	93.3	23.3	1:1	2:1	100.90
78255	900ct	600ct	150	.4	.050	3.3	75	70	17.5	1.22:1	2.45:1	100.90
78260	1000ct	12ct	3	.4	.050	3.2	83.3	1.4	.35	9.13:1	18.3:1	111.04
78265	1000ct	50ct	12.5	.4	.050	3.2	83.3	5.83	1.45	4.47:1	8.94:1	111.04
78270	1000ct	1000ct	250	.4	.050	3.2	83.3	116.6	29.15	1:1	2:1	100.90
78275	1060ct	12.8ct	3.2	.4	.050	3.1	88.3	1.49	.37	9.1:1	18.2:1	111.04
78280	1200ct	12.8ct	3.2	.4	.050	2.9	100	1.49	.37	9.68:1	19.4:1	111.04
78285	1200ct	500ct	125	.4	.050	2.9	100	58.3	14.58	1.55:1	3.1:1	111.04
78290	1200ct	1200ct	300	.4	.050	2.9	100	140	35	1:1	2:1	111.04
78295	*1200ct	1200ct	-	.4	.050	2.9	100	140	35	1:1	-	111.04
78300	1500ct	12ct	3	.4	.050	2.6	125	1.4	.35	11.2:1	22.4:1	111.04
78305	1500ct	500ct	125	.4	.050	2.6	125	58.3	14.58	1.73:1	3.46:1	100.90
78310	*1500ct	600ct	-	.4	.050	2.6	125	70	17.5	1.58:1	-	100.90
78315	*1500ct	1500ct	-	.4	.050	2.6	125	175	43.75	1:1	-	111.04
78320	1600ct	12.8ct	3.2	.4	.050	2.5	133.3	1.49	.37	11.2:1	22.4:1	111.04

PICO Part Number	Primary Impedence Ohms	Secondary Impedence Ohms Split Windings		Power Watts		Primary Unbal DC Current ma	Primary DC Resistance Ohms	Secondary DC Resistance Ohms		Turns/Ratio Prim/Sec		PICO Prices 1-9** (US \$)
		Ser	Par	1 Khz and Higher	300Hz and Higher			Ser Conn	Par Conn	SEC Ser Conn	SEC Par Conn	
78325	2000ct	8ct	2	.4	.050	2.2	166.6	.93	.23	15.8:1	31.6:1	111.04
78330	2000ct	2000ct	500	.4	.050	2.2	166.6	233.3	58.33	1:1	2:1	111.04
78335	*2000ct	2000ct	-	.4	.050	2.2	166.6	233.3	58.33	1:1	-	111.04
78340	2000ct	8000ct	2000	.4	.050	2.0	166.6	933.3	233.3	1:2	1:1	108.18
78345	2000ct	2500ct	625	.4	.050	1.8	166.6	291.6	72.4	1:1	2:1	108.18
78350	3000ct	3000ct	725	.4	.050	1.8	250	350	87.5	1:1	2:1	108.18
78355	*3000ct	3000ct	-	.4	.050	1.7	250	350	87.5	1:1	-	108.18
78360	3600ct	3600ct	900	.4	.050	1.6	300	420	105	1:1	2:1	108.18
78365	4000ct	16ct	4	.4	.050	1.6	333.3	1.86	.46	15.8:1	31.6:1	108.18
78370	4000ct	600ct	150	.4	.050	1.6	333.3	70	17.5	2.58:1	5.16:1	108.18
78375	4000ct	1000ct	250	.4	.050	1.6	333.3	116.6	29.16	2:1	4:1	108.18
78380	*4000ct	8000ct	-	.4	.050	1.4	333.3	933.3	233.3	1:1.41	-	118.94
78385	5000ct	500ct	125	.4	.050	1.4	416.6	58.3	14.58	3.16:1	6.32:1	108.18
78390	5000ct	5000ct	1250	.4	.050	1.2	416.6	583.3	145.8	1:1	2:1	108.18
78395	7500ct	50ct	12.5	.4	.050	1.2	625	5.83	1.45	12.2:1	24.5:1	118.94
78400	7500ct	100ct	25	.4	.050	1.2	625	11.66	2.91	8.66:1	17.3:1	109.28
78405	7500ct	600ct	150	.4	.050	1.2	625	70	17.5	3.54:1	7.07:1	109.28
78410	7500ct	2500ct	625	.4	.050	1.2	625	291.6	72.9	1.73:1	3.46:1	109.28
78415	*7500ct	7500ct	-	.4	.050	1.1	625	875	218.75	1:1	-	109.28
78420	8000ct	12.8ct	3.2	.4	.050	1.1	666.6	1.49	.37	25:1	50:1	118.94
78425	8000ct	1000ct	250	.4	.050	1.1	666.6	116.6	29.16	2.83:1	5.66:1	118.94
78430	*8000ct	1200ct	-	.4	.050	1.1	666.6	140	35	2.58:1	-	118.94
78435	*9000ct	9000ct	-	.4	.050	1.0	750	1.050	262.5	1:1	-	118.94
78440	10,000ct	12.8ct	3.2	.4	.050	1.0	833	1.49	.37	28:1	56:1	118.94
78445	10,000ct	16ct	4	.4	.050	1.0	833	1.86	.46	25:1	50:1	109.28
78450	10,000ct	100ct	25	.4	.050	1.0	833	11.66	2.91	10:1	20:1	109.28
78455	10,000ct	200ct	50	.4	.050	1.0	833	23.3	5.83	7.07:1	14.14:1	109.28
78460	10,000ct	500ct	125	.4	.050	1.0	833	58.3	14.58	4.47:1	8.94:1	109.28
78465	10,000ct	600ct	150	.4	.050	1.0	833	70	17.5	4.08:1	8.16:1	109.28
78470	10,000ct	1000ct	250	.4	.050	1.0	833	116.6	29.16	3.16:1	6.32:1	109.28
78475	10,000ct	1200ct	300	.4	.050	1.0	833	140	35	2.89:1	5.77:1	109.28
78480	10,000ct	1500ct	375	.4	.050	1.0	833	175	43.75	2.58:1	5.16:1	111.04
78485	10,000ct	2000ct	500	.4	.050	1.0	833	233.33	58.33	2.24:1	4.47:1	111.04
78490	10,000ct	5000ct	1250	.4	.050	1.0	833	583.3	145.83	1.41:1	2.83:1	111.04
78495	10,000ct	7500ct	1875	.4	.050	1.0	833	875	218.75	1.15:1	2.3:1	111.04
78500	10,000ct	10,000ct	2500	.4	.050	1.0	833	1166.6	291.6	1:1	2:1	100.90
78505	*10,000ct	10,000ct	-	.4	.050	1.0	833	1166.6	291.6	1:1	-	118.94

◆ *Includes Electrstatic Shield

****Discount Prices:**

- 1-9 Net;
- 10-24 less 10%;
- 25-49 less 16%;
- 50-99 less 23%;
- 100-499 less 30%

Ordering Instructions:

- No minimum.

Net 30 days F.O.B. Pelham, NY

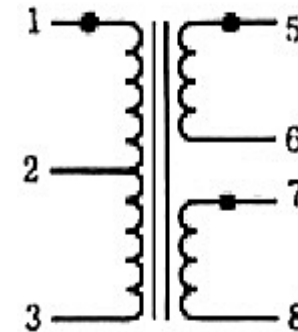
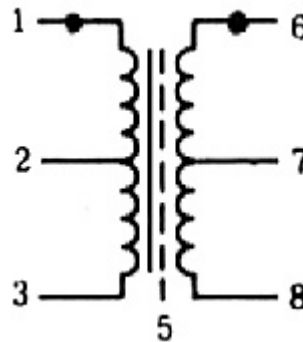
Delivery--stock to one week for sample orders.

FEATURES

- Extreme resistance to thermal shock
- Ultra miniature size
- PICO is approved QPL Source (MIL-PRF-27)
- Magnetic Shield Design available
- Electrostatic shielding can be added
- Variation of standard designs available
- Every unit can be made with a 300 thermal cycle guarantee using PICO's special SR construction.

Contact factory for details.

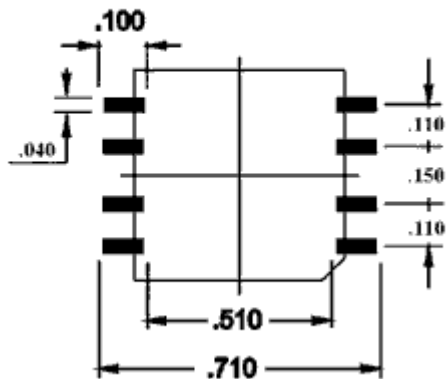
Schematics for Transformers
with Electrostatic Shield



Schematics for Transformers
with Split Secondaries

RECOMMENDED LAND PATTERN DESIGN

PICO 78000 SERIES.



For immediate engineering assistance or to place an order:

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PICO Electronics, Inc.

143 Sparks Ave. Pelham, NY 10803-1810

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