

Audio Transformers:

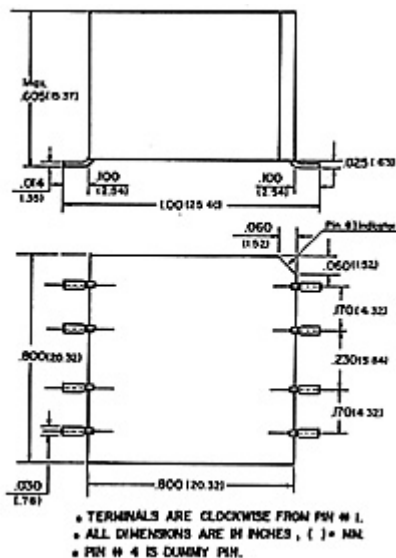
2 Ohm to 135K Ohm; 50Hz to 30KHz; 2 watt at 1KHz

SURFACE MOUNT

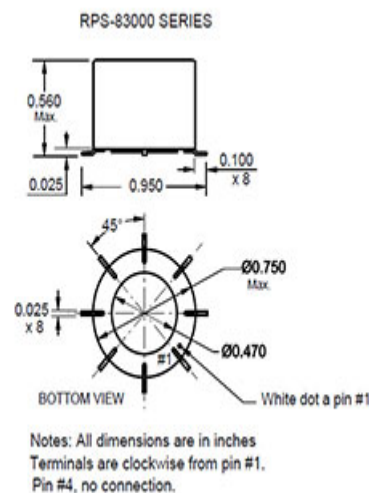
PICO surface mount units utilize materials and methods to withstand extreme temperatures of vapor phase, I.R., and other reflow procedures without degradation of electrical or mechanical characteristics.

Specifications

- **MIL-PRF-27:** All units manufactured to MIL-PRF-27, Grade 5, Class S.
- **FREQUENCY RESPONSE:** $\pm 3\text{db}$, 50 Hz-30 KHz at 1.0 Milliwatt. ($\pm 0.5\text{ db}$, 300 Hz - 5 KHz)
- **MAXIMUM DISTORTION:** 5% with Rated Power Level at 1 KHz, 300 Hz and 50 Hz.
- **DIELECTRIC STRENGTH:** All units tested at 200 V RMS.
- **INSULATION RESISTANCE:** Greater than 10,000 Megohms at 300 V DC.
- **WEIGHT:** 17 Grams
- **OPERATING TEMPERATURE:** -55°C to $+130^{\circ}\text{C}$
- **TERMINALS:** Solderability per MIL-STD-202, Method 208.
- **THERMAL SHOCK:** 25 Cycles, Method 107, MIL-STD-202, Test Condition -55°C to $+130^{\circ}\text{C}$.
- **MOISTURE SENSITIVITY LEVEL:** MSL3



Square Package
[Larger size drawing](#)



Round Package
[Larger size drawing](#)

Audio Transformers: 2 Ohm to 135K Ohm; 50Hz to 30KHz; 2 watt at 1KHz														Pico Price 1-9 *** (US \$)
Pico Part Number Square Package	Pico Part Number Round Package	Prim Imped Ohms	Secondary Impedance Ohms Split Windings		Power Watts			Primary Unbal DC Current ma	Prim DC Resist Ohms	Secondary DC Resistance Ohms		Turns Ratio Prime/Sec		
			SER	PAR	1KHz and higher	300 Hz and higher	75 Hz and higher			SER CONN	PAR CONN	SEC SER CONN	SEC PAR CONN	
83003	CSS003	20 ct	8 ct	2	2.0	1.5	.03	22	1.6	.88	.22	1.58:1	3.16:1	70.95
83005	CSS005	20 ct	20 ct	5	2.0	1.5	.03	22	1.6	2.2	.55	1:1	2:1	70.95
83010	CSS010	32 ct	32 ct	8	2.0	1.5	.03	17.5	2.56	3.52	.88	1:1	2:1	70.95
83015	CSS015	40 ct	40 ct	10	2.0	1.5	.03	16	3.2	4.4	1.1	1:1	2:1	70.95
83018	CSS018	48 ct	16 ct	4	2.0	1.5	.03	14.5	3.84	1.76	.44	1.73:1	3.46:1	70.95
83020	CSS020	50 ct	50 ct	12.5	2.0	1.5	.03	14	4	5.5	1.38	1:1	2:1	70.95
83025	CSS025	80 ct	32 ct	8	2.0	1.5	.03	11	6.4	3.52	.88	1.58:1	3.16:1	70.95
83028	CSS028	100 ct	40 ct	10	2.0	1.5	.03	10	8	4.4	1.1	1.58:1	3.16:1	70.95
83030	CSS030	100 ct	100 ct	25	2.0	1.5	.03	10	8	11	2.75	1:1	2:1	70.95
83035	CSS035	120 ct	12.8 ct	3.2	2.0	1.5	.03	9	9.6	1.41	.35	3.06:2	6.12:1	70.95
83040	CSS040	120 ct	60 ct	15	2.0	1.5	.03	9	9.6	6.6	1.65	1.41:1	2.83:1	70.95
83045	CSS045	120 ct	120 ct	30	2.0	1.5	.03	9	9.6	13.2	3.3	1:1	2:1	70.95
83050	CSS050	150 ct	12 ct	3	2.0	1.5	.03	8	12	1.32	.33	3.54:1	7.08:1	70.95
83055	CSS055	150 ct	50 ct	12.5	2.0	1.5	.03	8	12	5.5	1.38	1.73:1	3.46:1	70.95
83060	CSS060	150 ct	100 ct	25	2.0	1.5	.03	8	12	11	2.75	1.22:1	2.44:1	70.95
Pico Part Number Square Package	Pico Part Number Round Package	Prim Imped Ohms	Secondary Impedance Ohms Split Windings		Power Watts			Primary Unbal DC Current ma	Prim DC Resist Ohms	Secondary DC Resistance Ohms		Turns Ratio Prime/Sec		Pico Price 1-9 *** (US \$)
			SER	PAR	1KHz and higher	300 Hz and higher	75 Hz and higher			SER CONN	PAR CONN	SEC SER CONN	SEC PAR CONN	
83065	CSS065	150 ct	150 ct	37.5	2.0	1.5	.03	8	12	16.5	4.13	1:1	2:1	
8307	CSS07	150 ct	600 ct	150	2.0	1.5	.03	8	12	66	16.5	1:2	1:1	70.95
83075	CSS075	200 ct	200 ct	50	2.0	1.5	.03	7	16	22	5.5	1:1	2:1	70.95
83080	CSS080	300 ct	12 ct	3	2.0	1.5	.03	5.5	24	1.32	.33	5:1	10:1	70.95
83085	CSS085	300 ct	50 ct	12.5	2.0	1.5	.03	5.5	24	5.5	1.38	2.45:1	4.9:1	70.95

83090	CSS090	300 ct	150 ct	37.5	2.0	1.5	.03	5.5	24	16.5	4.13	1.41:1	2.83:1	70.95
83095	CSS095	300 ct	300 ct	75	2.0	1.5	.03	5.5	24	33	8.25	1:1	2:1	70.95
83100	CSS100	300 ct	600 ct	150	2.0	1.5	.03	5.5	24	66	16.5	1:1.41	1.41:1	70.95
83105	CSS105	320 ct	12.8 ct	3.2	2.0	1.5	.03	5.5	25.6	1.41	.35	5:1	10:1	70.95
83110	CSS110	400 ct	40 ct	10	2.0	1.5	.03	5	32	4.4	1.1	3.16:1	6.32:1	70.95
83115	CSS115	400 ct	120 ct	30	2.0	1.5	.03	5	32	13.2	3.3	1.83:1	3.65:1	70.95
83120	CSS120	400 ct	200 ct	50	2.0	1.5	.03	5	32	22	5.5	1.41:1	2.83:1	70.95
83125	CSS125	400 ct	400 ct	100	2.0	1.5	.03	5	32	44	11	1:1	2:1	70.95
83130	CSS130	400 ct	1000 ct	250	2.0	1.5	.03	5	32	110	27.5	1:1.58	1.26:1	70.95
83135	CSS135	400 ct	2000 ct	500	2.0	1.5	.03	5	32	220	55	1:2.24	1:1.12	70.95
83140	CSS140	400 ct	4000 ct	1000	2.0	1.5	.03	5	32	440	110	1:3.16	1:1.58	70.95
83142	CSS142	500 ct	12.8 ct	3.2	2.0	1.5	.03	4.5	40	1.41	.35	6.25:1	12.5:1	70.95
83144	CSS144	500 ct	16 ct	4	2.0	1.5	.03	4.5	40	1.76	.44	5.6:1	11.2:1	70.95
83145	CSS145	500 ct	50 ct	12.5	2.0	1.5	.03	4.5	40	5.5	1.38	3.16:1	6.32:1	70.95
83147	CSS147	500 ct	150 ct	37.5	2.0	1.5	.03	4.5	40	16.5	4.13	1.83:1	3.65:1	70.95
83150	CSS150	500 ct	500 ct	125	2.0	1.5	.03	4.5	40	55	13.75	1:1	2:1	70.95
83155	CSS155	*500 ct	500 ct	-	2.0	1.5	.03	4.5	40	55	-	1:1	-	73.79
83160	CSS160	500 ct	600 ct	150	2.0	1.5	.03	4.5	40	66	16.5	1:1.1	1.83:1	70.95
83165	CSS165	600 ct	12.8 ct	3.2	2.0	1.5	.03	4	48	1.41	.35	6.85:1	13.7:1	70.95
83167	CSS167	600 ct	30 ct	7.5	2.0	1.5	.03	4	48	3.3	.83	4.47:1	8.94:1	70.95
83170	CSS170	600 ct	48 ct	12	2.0	1.5	.03	4	48	5.28	1.37	3.54:1	7.07:1	70.95
83175	CSS175	600 ct	200 ct	50	2.0	1.5	.03	4	48	22	5.5	1.73:1	3.46:1	70.95
83180**	CSS180**	600 ct	600 ct	150	2.0	1.5	.03	4	48	66	16.5	1:1	2:1	70.95
83185**	CSS185**	*600 ct	600 ct	-	2.0	1.5	.03	4	48	66	-	1:1	-	73.79
83186**	CSS186**	*600 ct	900 ct	-	2.0	1.5	.03	4	48	99	-	1:1.22	-	73.79
83187**	CSS187**	600 ct	1200 ct	300	2.0	1.5	.03	4	48	132	33	1:1.41	1.41:1	70.95
83190	CSS190	640 ct	12.8 ct	3.2	2.0	1.5	.03	4	51	1.41	.35	7.07:1	14.14:1	70.95
83195	CSS195	700 ct	100 ct	25	2.0	1.5	.03	3.5	56	11	2.75	2.65:1	5.29:1	70.95
83200	CSS200	800 ct	12.8 ct	3.2	2.0	1.5	.03	3.5	64	1.41	.35	7.91:1	15.8:1	70.95
83205	CSS205	800 ct	48 ct	12	2.0	1.5	.03	3.5	64	5.28	1.32	4.08:1	8.16:1	70.95
83210	CSS210	800 ct	800 ct	200	2.0	1.5	.03	3.5	64	88	22	1:1	2:1	70.95
83215	CSS215	900 ct	600 ct	150	2.0	1.5	.03	3	72	66	16.5	1.23:1	2.45:1	70.95
83217**	CSS217**	*900 ct	900 ct	-	2.0	1.5	.03	3	72	99	-	1:1	-	73.79
83220	CSS220	1000 ct	12 ct	3	2.0	1.5	.03	3	80	1.32	.33	9.13:1	18.26:1	70.95
83225	CSS225	1000 ct	50 ct	12.5	2.0	1.5	.03	3	80	5.5	1.38	4.47:1	8.94:1	70.95
83230	CSS230	1000 ct	1000 ct	250	2.0	1.5	.03	3	80	110	27.5	1:1	2:1	70.95
83235	CSS235	1060 ct	12.8 ct	3.2	2.0	1.5	.03	3	85	1.41	.35	9.1:1	18.2:1	70.95
83240	CSS240	1200 ct	12.8 ct	3.2	2.0	1.5	.03	3	96	1.41	.35	9.68:1	19.4:1	70.95
83245	CSS245	1200 ct	500 ct	125	2.0	1.5	.03	3	96	55	13.75	1.55:1	3.1:1	70.95
83250	CSS250	1200 ct	1200 ct	300	2.0	1.5	.03	3	96	132	33	1:1	2:1	70.95

83255	CSS255	*1200 ct	1200 ct	-	2.0	1.5	.03	3	96	132	-	1:1	-	73.79
83260	CSS260	1500 ct	12 ct	3	2.0	1.5	.03	2.5	120	1.32	.33	11.18:1	22.36:1	70.95
83265	CSS265	1500 ct	500 ct	125	2.0	1.5	.03	2.5	120	55	13.75	1.73:1	3.46:1	70.95
83270	CSS270	*1500 ct	600 ct	-	2.0	1.5	.03	2.5	120	66	-	1.58:1	-	73.79
83275	CSS275	*1500 ct	1500 ct	-	2.0	1.5	.03	2.5	120	165	-	1:1	-	73.79

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			SER	PAR	1 KHz and higher	300 Hz and higher	75 Hz and higher			SER CONN	PAR CONN	SEC SER CONN	SEC PAR CONN	
83280	CSS280	1600 ct	12.8 ct	3.2	2.0	1.5	.03	2.5	128	1.41	.35	11.18:1	22.36:1	70.95
83283	CSS283	2000 ct	8 ct	2	2.0	1.5	.03	2.2	160	.88	.22	15.8:1	31.6:1	70.95
83285	CSS285	2000 ct	2000 ct	500	2.0	1.5	.03	2.2	160	220	55	1:1	2:1	70.95
83290	CSS290	*2000 ct	2000 ct	-	2.0	1.5	.03	2.2	160	220	-	1:1	-	74.05
83295	CSS295	2000 ct	8000 ct	2000	2.0	1.5	.03	2.2	160	880	220	1:2	1:1	74.05
83297	CSS297	2500 ct	2500 ct	625	2.0	1.5	.03	2	200	275	69	1:1	2:1	74.05
83300	CSS300	3000 ct	3000 ct	750	2.0	1.5	.03	1.8	240	330	83	1:1	2:1	74.05
83305	CSS305	*3000 ct	3000 ct	-	2.0	1.5	.03	1.8	240	330	-	1:1	-	74.05
83310	CSS310	3600 ct	3600 ct	900	2.0	1.5	.03	1.7	288	396	99	1:1	2:1	74.05
83312	CSS312	4000 ct	16 ct	4	2.0	1.5	.03	1.6	320	1.76	.44	15.8:1	31.6:1	74.05
83314**	CSS314**	4000 ct	600 ct	150	2.0	1.5	.03	1.6	320	66	16.5	2.58:1	5.16:1	74.05
83315	CSS315	4000 ct	1000 ct	250	2.0	1.5	.03	1.6	320	110	27.5	2:1	4:1	74.05
83320	CSS320	*4000 ct	8000 ct	-	2.0	1.5	.03	1.6	320	880	-	1:1.41	-	74.05
83325	CSS325	5000 ct	500 ct	125	2.0	1.5	.03	1.4	400	55	13.8	3.16:1	6.32:1	70.95
83330	CSS330	5000 ct	5000 ct	1250	2.0	1.5	.03	1.4	400	550	138	1:1	2:1	70.95
83335	CSS335	7500 ct	50 ct	12.5	1.3	1.3	.03	1.2	600	5.5	1.38	12.25:1	24.5:1	78.60
83340	CSS340	7500 ct	100 ct	25	1.3	1.3	.03	1.2	600	11	2.75	8.66:1	17.32:1	78.60
83345	CSS345	7500 ct	600 ct	150	1.3	1.3	.03	1.2	600	66	16.5	3.54:1	7.07:1	78.60
83350	CSS350	7500 ct	2500 ct	625	1.3	1.3	.03	1.2	600	275	69	1.73:1	3.46:1	78.60
83355	CSS355	*7500 ct	7500 ct	-	1.3	1.3	.03	1.2	600	825	-	1:1	-	84.95
83360	CSS360	8000 ct	12.8 ct	3.2	1.2	1.2	.03	1.1	640	1.4	.35	25:1	50:1	78.60
83365	CSS365	8000 ct	1000 ct	250	1.2	1.2	.03	1.1	640	110	27.5	2.83:1	5.66:1	78.60
83370	CSS370	*8000 ct	1200 ct	-	1.2	1.2	.03	1.1	640	132	-	2.58:1	-	84.95
83375	CSS375	*9000 ct	9000 ct	-	1.1	1.1	.03	1.1	720	990	-	1:1	-	84.95
83380	CSS380	10,000 ct	12.8 ct	3.2	1.0	1.0	.03	1	800	1.4	.35	28:1	56:1	78.60
83385	CSS385	10,000 ct	16 ct	4	1.0	1.0	.03	1	800	1.76	.44	25:1	50:1	78.60
83390	CSS390	10,000 ct	100 ct	25	1.0	1.0	.03	1	800	11	2.75	10:1	20:1	78.60
83395	CSS395	10,000 ct	200 ct	50	1.0	1.0	.03	1	800	22	5.5	7.07:1	14.14:1	78.60

83400	CSS400	10,000 ct	500 ct	125	1.0	1.0	.03	1	800	55	13.75	4.47:1	8.94:1	78.60
83405	CSS405	10,000 ct	600 ct	150	1.0	1.0	.03	1	800	66	16.5	4.08:1	8.16:1	78.60
83410	CSS410	10,000 ct	1000 ct	250	1.0	1.0	.03	1	800	110	27.5	3.16:1	6.32:1	78.60
83415	CSS415	10,000 ct	1200 ct	300	1.0	1.0	.03	1	800	132	33	2.89:1	5.77:1	78.60
83420	CSS420	10,000 ct	1500 ct	375	1.0	1.0	.03	1	800	165	41.3	2.58:1	5.16:1	78.60
83425	CSS425	10,000 ct	2000 ct	500	1.0	1.0	.03	1	800	220	55	2.24:1	4.47:1	78.60
83430	CSS430	10,000 ct	5000 ct	1250	1.0	1.0	.03	1	800	550	138	1.41:1	1.83:1	78.60
83435	CSS435	10,000 ct	7500 ct	1875	1.0	1.0	.03	1	800	825	206	1.16:1	2.31:1	78.60
83440	CSS440	10,000 ct	10,000 ct	2500	1.0	1.0	.03	1	800	1100	275	1:1	2:1	78.60
83445	CSS445	*10,000ct	10,000 ct	-	1.0	1.0	.03	1	800	1100	-	1:1	-	84.95
83450	CSS450	15,000 ct	400 ct	100	.65	.65	.03	.8	1200	44	11	6.12:1	12.25:1	78.60
83452	CSS452	15,000 ct	500 ct	125	.65	.65	.03	.8	1200	55	13.8	5.48:1	10.95:1	78.60
83455	CSS455	15,000 ct	600 ct	150	.65	.65	.03	.8	1200	66	16.5	5:1	10:1	78.60
83460	CSS460	15,000 ct	10,000 ct	2500	.65	.65	.03	.8	1200	1100	275	1.22:1	2.45:1	78.60
83465	CSS465	*15,000ct	15,000 ct	-	.65	.65	.03	.8	1200	1650	-	1:1	-	84.95
83470	CSS470	15,000 ct	15,000 ct	3750	.65	.65	.03	.8	1200	1650	413	1:1	2:1	78.60
83475	CSS475	16,000 ct	1000 ct	250	.62	.62	.03	.8	1280	110	27.5	4:1	8:1	78.60
83480	CSS480	20,000 ct	500 ct	125	.5	.5	.03	.7	1600	55	13.8	6.32:1	12.65:1	84.95
83485	CSS485	20,000 ct	600 ct	150	.5	.5	.03	.7	1600	66	16.5	5.77:1	11.55:1	84.95
83490	CSS490	20,000 ct	800 ct	200	.5	.5	.03	.7	1600	88	22	5:1	10:1	84.95
83495	CSS495	20,000 ct	1000 ct	250	.5	.5	.03	.7	1600	110	27.5	4.47:1	8.94:1	84.95
83500	CSS500	20,000 ct	5000 ct	1250	.5	.5	.03	.7	1600	550	138	2:1	4:1	84.95
83505	CSS505	20,000 ct	10,000 ct	2500	.5	.5	.03	.7	1600	1100	275	1.41:1	2.83:1	84.95
83510	CSS510	*20,000ct	20,000 ct	-	.5	.5	.03	.7	1600	2200	-	1:1	-	87.52
83515	CSS515	25,000 ct	500 ct	125	.4	.4	.03	.6	2000	55	13.8	7.07:1	14.14:1	84.95
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			SER	PAR	1 KHz and higher	300 Hz and higher	75 Hz and higher			SER CONN	PAR CONN	SEC SER CONN	SEC PAR CONN	
83520	CSS520	25,000ct	1000 ct	250	.4	.4	.03	.6	2000	110	27.5	5:1	10:1	84.95
83525	CSS525	30,000ct	50 ct	12.5	.33	.33	.03	.6	2400	5.5	1.38	24.5:1	49:1	87.52
83530	CSS530	30,000ct	1200 ct	300	.33	.33	.03	.6	2400	132	33	5:1	10:1	87.52
83532	CSS532	30,000ct	500 ct	125	.33	.33	.03	.6	2400	55	13.8	7.7:1	15.5:1	87.52
83534	CSS534	30,000ct	200 ct	50	.33	.33	.03	.6	2400	22	5.5	12.2:1	24.5:1	87.52
83535	CSS535	30,000ct	5000 ct	1250	.33	.33	.03	.6	2400	550	137.5	2.45:1	4.9:1	87.52
83540	CSS540	30,000ct	10,000 ct	2500	.33	.33	.03	.6	2400	1100	275	1.73:1	3.46:1	87.52
83545	CSS545	*30,000ct	30,000 ct	-	.33	.33	.03	.6	2400	3300	-	1:1	-	94.07
83550	CSS550	40,000 ct	400 ct	100	.25	.25	.03	.5	3200	44	11	10:1	20:1	94.07
83555	CSS555	40,000 ct	2000 ct	500	.25	.25	.03	.5	3200	220	55	4.47:1	8.94:1	94.07

83560	CSS560	40,000 ct	4000 ct	1000	.25	.25	.03	.5	3200	440	110	3.16:1	6.32:1	94.07
83565	CSS565	40,000 ct	20,000 ct	5000	.25	.25	.03	.5	3200	2200	550	1.41:1	2.83:1	94.07
83570	CSS570	*40,000ct	40,000 ct	-	.25	.25	.03	.5	3200	4400	-	1:1	-	104.76
83575	CSS575	50,000 ct	200 ct	50	.2	.2	.03	.4	4000	22	5.5	15.8:1	31.6:1	104.73
83577	CSS577	50,000 ct	500 ct	125	.2	.2	.03	.4	4000	55	13.8	10:1	20:1	104.73
83578	CSS578	50,000 ct	600 ct	150	.2	.2	.03	.4	4000	66	16.5	9.13:1	18.26:1	104.73
83579	CSS579	50,000 ct	50,000 ct	12,500	.2	.2	.03	.4	4000	5500	1380	1:1	2:1	105.71
83580	CSS580	60,000 ct	15,000 ct	3750	.16	.16	.03	.4	4800	1650	413	2:1	4:1	105.71
83585	CSS585	62,500 ct	50 ct	12.5	.16	.16	.03	.4	5000	5.5	1.38	35.4:1	70.7:1	105.71
83587	CSS587	80,000 ct	15,000 ct	3750	.12	.12	.03	.3	6400	1650	413	2.3:1	4.6:1	105.71
83590	CSS590	90,000 ct	10,000 ct	2500	.11	.11	.03	.3	7200	1100	275	3:1	6:1	118.73
83595	CSS595	95,000 ct	15,000 ct	3750	.1	.1	.03	.3	7600	1650	413	2.5:1	5:1	118.73
83600	CSS600	100,000 ct	60 ct	15	.1	.1	.03	.3	8000	6.6	1.65	40.8:1	81.6:1	118.73
83605	CSS605	100,000 ct	100 ct	25	.1	.1	.03	.3	8000	11	2.75	31.6:1	63.2:1	118.73
83610	CSS610	100,000 ct	500 ct	125	.1	.1	.03	.3	8000	55	13.8	14.1:1	28.3:1	118.73
83613	CSS613	100,000 ct	1000 ct	250	.1	.1	.03	.3	8000	110	27.5	10:1	20:1	118.73
83614	CSS614	100,000 ct	2000 ct	500	.1	.1	.03	.3	8000	220	55	7.07:1	14.14:1	118.73
83615	CSS615	100,000 ct	10,000 ct	2500	.1	.1	.03	.3	8000	1100	275	3.16:1	6.32:1	118.73
83620	CSS620	135,000 ct	82 ct	20.5	.07	.07	.03	.2	10,800	9	2.25	40.6:1	81.2:1	124.06

*Includes electrostatic shield

**Miniaturized telephoned coupling application

***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.

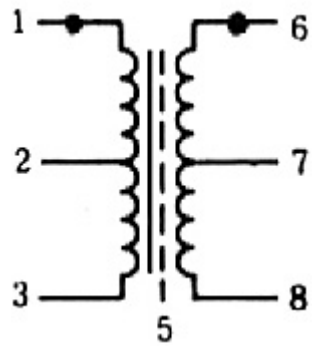
Net 30 days F.O.B. Pelham, NY

Delivery--stock to one week for sample orders.

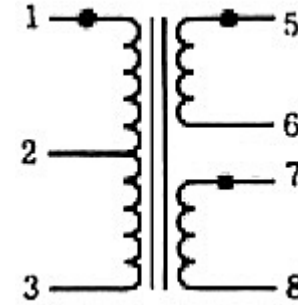
Features

- Extreme resistance to thermal shock.
- Ultra miniature size.
- PICO is approved QPL source (MIL-PRF-27).
- Magnetic shields available.
- Electrostatic shielding can be added.
- Variation of standard designs available.
- Primary and secondary windings can be used either as input or output.
- Every unit in this catalog can be made with a 300 thermal cycle guarantee using PICO's special SR construction. Contact factory for details.

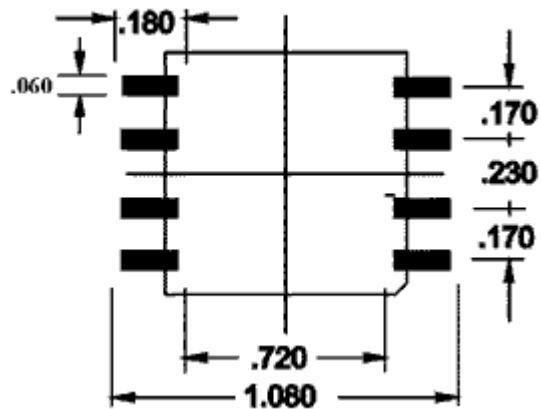
Schematics
for Transformers
with Electrostatic Shield



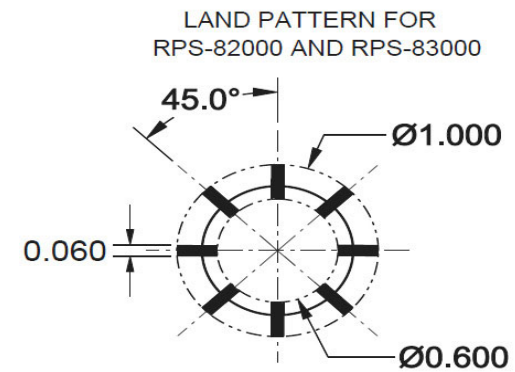
Schematics
for Transformers
with Split Secondaries



**Schematics
PICO 83000 Series**



Land Pattern



[Click Here for Thru Hole Version of 83000 Series](#)

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PICO Electronics, Inc.

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