

T & 84000 Series

2-80k Ω , 20-25kHz, 3W Max. @ 1kHz+ Audio Transformer

PICO
Electronics, Inc.

PRODUCT OVERVIEW

The T and 84000 series are ultra-miniature transformers in an encapsulated package with design layouts as plug-in or surface mount. They can operate over a wide temperature range of -55°C to +130°C. Our materials and methods allow extreme temperatures of vapor phase, IR or other reflow procedures without degrading the high reliability of their physical form and electrical performance.

Typical applications:

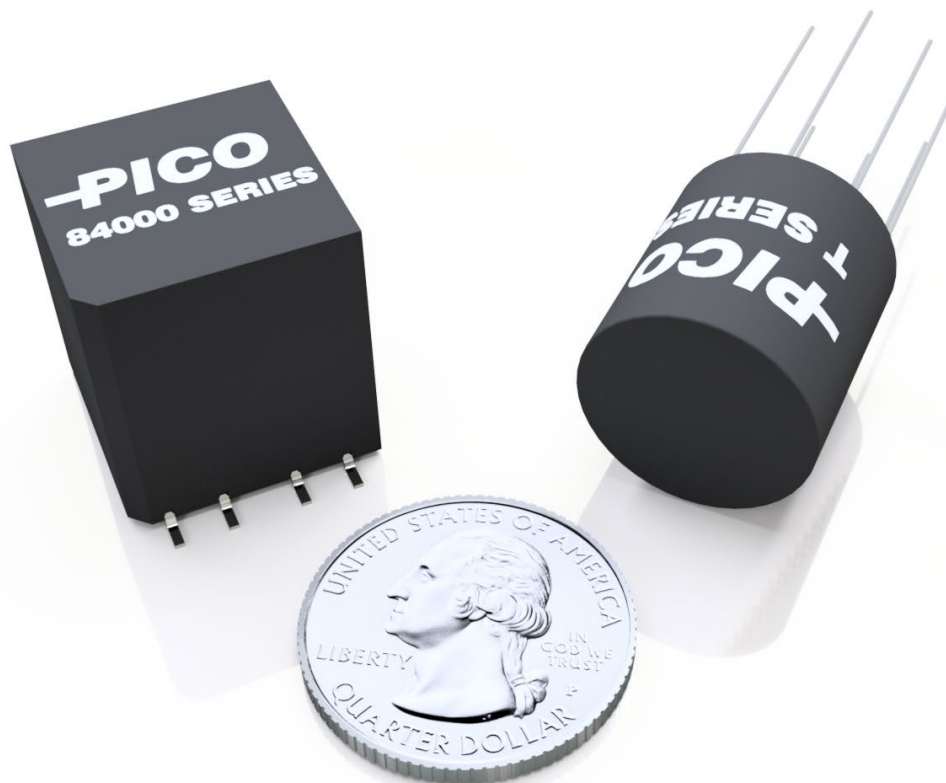
- Sensors
- Radars
- Avionic flight controls
- Airborne systems
- Naval electronics
- Military, aerospace, or commercial aircraft

FEATURES

- Extreme resistance to impact, shock, and vibration
- Manufactured to MIL-PRF-27, Class S, Grade 5
- High reliability for space and mission critical applications
- Ultra miniature in size and minimalistic design
- Design layouts in through-hole or surface mount
- Available with magnetic shielding and/or electrostatic shielding

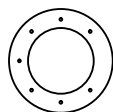
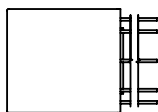
Contact Pico for part number of available options:

- Screening and qualification criteria to flight standard
- Capability to thermal shock up to 300 cycles
- Extra layers of magnetic shielding
- Fully RoHS compliant or with exemption 7(a)
- Modifications to mechanical design and electrical characteristics
- Custom new design and parameters

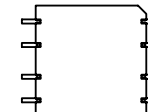
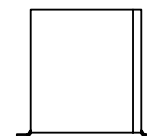


SPECIFICATIONS

T SERIES - THROUGH HOLE



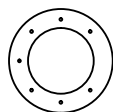
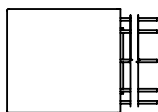
84000 SERIES - SURFACE MOUNT



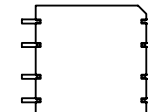
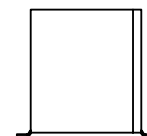
Through Hole	Surface Mount	Primary Impedance [Ω]	Secondary Impedance with Split Windings		Power			Primary Unbalanced DC Current [mA]	Primary DCR [Ω]	Secondary DCR		Turns Ratio PRI:SEC	
			Series [Ω]	Parallel [Ω]	1kHz+ [W]	300Hz+ [W]	75Hz+ [W]			Series [Ω]	Parallel [Ω]	Series	Parallel
T-22003	84003	20 CT	8 CT	2	3.0	2.0	.006	22	1.6	.8	.2	1.58:1	3.16:1
T-22005	84005	20 CT	20 CT	5	3.0	2.0	.006	22	1.6	2	.5	1:1	2:1
T-22010	84010	32 CT	32 CT	8	3.0	2.0	.006	17.5	2.56	3.2	.8	1:1	2:1
T-22015	84015	40 CT	40 CT	10	3.0	2.0	.006	16	3.2	4	1	1:1	2:1
T-22018	84018	48 CT	16 CT	4	3.0	2.0	.006	14.5	3.84	1.6	.4	1.73:1	3.46:1
T-22020	84020	50 CT	50 CT	12.5	3.0	2.0	.006	14	4	5	1.25	1:1	2:1
T-22025	84025	80 CT	32 CT	8	3.0	2.0	.006	11	6.4	3.2	.8	1.58:1	3.16:1
T-22028	84028	100 CT	40 CT	10	3.0	2.0	.006	10	8	4	1	1.58:1	3.16:1
T-22030	84030	100 CT	100 CT	25	3.0	2.0	.006	10	8	10	2.5	1:1	2:1
T-22035	84035	120 CT	12.8 CT	3.2	3.0	2.0	.006	9	9.6	1.3	.32	3.06:1	26.12:1
T-22040	84040	120 CT	60 CT	15	3.0	2.0	.006	9	9.6	6	1.5	1.41:1	2.83:1
T-22045	84045	120 CT	120 CT	30	3.0	2.0	.006	9	9.6	12	3	1:1	2:1
T-22050	84050	150 CT	12 CT	3	3.0	2.0	.006	8	12	1.2	.3	3.54:1	7.08:1
T-22055	84055	150 CT	50 CT	12.5	3.0	2.0	.006	8	12	5	1.25	1.73:1	3.46:1
T-22060	84060	150 CT	100 CT	25	3.0	2.0	.006	8	12	10	2.5	1.22:1	2.44:1
T-22065	84065	150 CT	150 CT	37.5	3.0	2.0	.006	8	12	15	3.75	1:1	2:1
T-22070	84070	150 CT	600 CT	150	3.0	2.0	.006	8	12	60	15	1:2	1:1
T-22075	84075	200 CT	200 CT	50	3.0	2.0	.006	7	16	20	5	1:1	2:1
T-22080	84080	300 CT	12 CT	3	3.0	2.0	.006	5.5	24	1.2	.3	5:1	10:1
T-22085	84085	300 CT	50 CT	12.5	3.0	2.0	.006	5.5	24	5	1.25	2.45:1	4.9:1
T-22090	84090	300 CT	150 CT	37.5	3.0	2.0	.006	5.5	24	15	3.75	1.41:1	2.83:1
T-22095	84095	300 CT	300 CT	75	3.0	2.0	.006	5.5	24	30	7.5	1:1	2:1
T-22100	84100	300 CT	600 CT	150	3.0	2.0	.006	5.5	24	60	15	1:1.41	1.41:1
T-22105	84105	320 CT	12.8 CT	3.2	3.0	2.0	.006	5.5	25.6	1.3	.32	5:1	10:1

SPECIFICATIONS

T SERIES - THROUGH HOLE



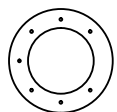
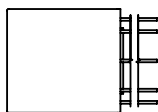
84000 SERIES - SURFACE MOUNT



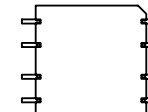
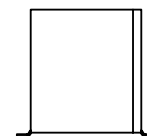
Through Hole	Surface Mount	Primary Impedance [Ω]	Secondary Impedance with Split Windings		Power			Primary Unbalanced DC Current [mA]	Primary DCR [Ω]	Secondary DCR		Turns Ratio PRI:SEC	
			Series [Ω]	Parallel [Ω]	1kHz+ [W]	300Hz+ [W]	75Hz+ [W]			Series [Ω]	Parallel [Ω]	Series	Parallel
T-22110	84110	400 CT	40 CT	10	3.0	2.0	.006	5	32	4	1	3.16:1	6.32:1
T-22115	84115	400 CT	120 CT	30	3.0	2.0	.006	5	32	12	3	1.83:1	3.65:1
T-22120	84120	400 CT	200 CT	50	3.0	2.0	.006	5	32	20	5	1.41:1	2.83:1
T-22125	84125	400 CT	400 CT	100	3.0	2.0	.006	5	32	40	10	1:1	2:1
T-22130	84130	400 CT	1000 CT	250	3.0	2.0	.006	5	32	100	25	1:1.58	1.26:1
T-22135	84135	400 CT	2000 CT	500	3.0	2.0	.006	5	32	200	50	1:2.24	1:1.12
T-22140	84140	400 CT	4000 CT	1000	3.0	2.0	.006	5	32	400	100	1:3.16	1:1.58
T-22142	84142	500 CT	12.8 CT	3.2	3.0	2.0	.006	4.5	40	1.3	.32	6.25:1	12.5:1
T-22144	84144	500 CT	16 CT	4	3.0	2.0	.006	4.5	40	1.6	.4	5.6:1	11.2:1
T-22145	84145	500 CT	50 CT	12.5	3.0	2.0	.006	4.5	40	5	1.25	3.16:1	6.32:1
T-22147	84147	500 CT	150 CT	37.5	3.0	2.0	.006	4.5	40	15	3.75	1.83:1	3.65:1
T-22150	84150	500 CT	500 CT	125	3.0	2.0	.006	4.5	40	50	12.5	1:1	2:1
(1) T-22155	84155	500 CT	500 CT	-	3.0	2.0	.006	4.5	40	50	-	1:1	-
T-22160	84160	500 CT	600 CT	150	3.0	2.0	.006	4.5	40	60	15	1:1.1	1.83:1
T-22165	84165	600 CT	12.8 CT	3.2	3.0	2.0	.006	4	48	1.3	.32	6.85:1	13.7:1
T-22167	84167	600 CT	30 CT	7.5	3.0	2.0	.006	4	48	3	.75	4.47:1	8.94:1
T-22170	84170	600 CT	48 CT	12	3.0	2.0	.006	4	48	4.8	1.2	3.54:1	7.07:1
T-22175	84175	600 CT	200 CT	50	3.0	2.0	.006	4	48	20	5	1.73:1	3.46:1
T-22180	84180	600 CT	600 CT	150	3.0	2.0	.006	4	48	60	15	1:1	2:1
(1) T-22185	84185	600 CT	600 CT	-	3.0	2.0	.006	4	48	60	-	1:1	-
(1) T-22186	84186	600 CT	900 CT	-	3.0	2.0	.006	4	48	90	-	1:1.22	-
T-22187	84187	600 CT	1200 CT	300	3.0	2.0	.006	4	48	120	30	1:1.41	1.41:1
T-22190	84190	640 CT	12.8 CT	3.2	3.0	2.0	.006	4	51	1.3	.32	7.07:1	14.14:1
T-22195	84195	700 CT	100 CT	25	3.0	2.0	.006	3.5	56	10	2.5	2.65:1	5.29:1

SPECIFICATIONS

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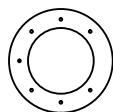
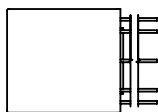
84000 SERIES - SURFACE MOUNT



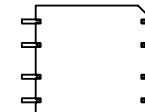
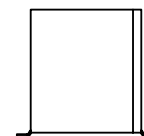
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				Series [Ω]	Parallel [Ω]	1kHz+ [W]	300Hz+ [W]	75Hz+ [W]			Series [Ω]	Parallel [Ω]	Series	Parallel
	T-22200	84200	800 CT	12.8 CT	3.2	3.0	2.0	.006	3.5	64	1.3	.32	7.91:1	15.8:1
	T-22205	84205	800 CT	48 CT	12	3.0	2.0	.006	3.5	64	4.8	1.2	4.08:1	8.16:1
	T-22210	84210	800 CT	800 CT	200	3.0	2.0	.006	3.5	64	80	20	1:1	2:1
	T-22215	84215	900 CT	600 CT	150	3.0	2.0	.006	3	72	60	15	1.22:1	2.45:1
(1)	T-22217	84217	900 CT	900 CT	-	3.0	2.0	.006	3	72	90	-	1:1	-
	T-22220	84220	1000 CT	12 CT	3	3.0	2.0	.006	3	80	1.2	.3	9.13:1	18.26:1
	T-22225	84225	1000 CT	50 CT	12.5	3.0	2.0	.006	3	80	5	1.25	4.47:1	8.94:1
	T-22230	84230	1000 CT	1000 CT	250	3.0	2.0	.006	3	80	100	25	1:1	2:1
	T-22235	84235	1060 CT	12.8 CT	3.2	3.0	2.0	.006	3	85	1.3	.32	9.1:1	18.2:1
	T-22240	84240	1200 CT	12.8 CT	3.2	3.0	2.0	.006	3	96	1.3	.32	9.68:1	19.4:1
	T-22245	84245	1200 CT	500 CT	125	3.0	2.0	.006	3	96	50	12.5	1.55:1	3.1:1
	T-22250	84250	1200 CT	1200 CT	300	3.0	2.0	.006	3	96	120	30	1:1	2:1
(1)	T-22255	84255	1200 CT	1200 CT	-	3.0	2.0	.006	3	96	120	-	1:1	-
	T-22260	84260	1500 CT	12 CT	3	3.0	2.0	.006	2.5	120	1.2	.3	11.18:1	22.36:1
	T-22265	84265	1500 CT	500 CT	125	3.0	2.0	.006	2.5	120	50	12.5	1.73:1	3.46:1
(1)	T-22270	84270	1500 CT	600 CT	-	3.0	2.0	.006	2.5	120	60	-	1.58:1	-
(1)	T-22275	84275	1500 CT	1500 CT	-	3.0	2.0	.006	2.5	120	150	-	1:1	-
	T-22280	84280	1600 CT	12.8 CT	3.2	3.0	2.0	.006	2.5	128	1.3	.32	11.18:1	22.36:1
	T-22283	84283	2000 CT	8 CT	2	3.0	2.0	.006	2.2	160	.8	.2	15.8:1	31.6:1
	T-22285	84285	2000 CT	2000 CT	500	3.0	2.0	.006	2.2	160	200	50	1:1	2:1
(1)	T-22290	84290	2000 CT	2000 CT	-	3.0	2.0	.006	2.2	160	200	-	1:1	-
	T-22295	84295	2000 CT	8000 CT	2000	3.0	2.0	.006	2.2	160	800	200	1:2	1:1
	T-22297	84297	2500 CT	2500 CT	625	3.0	2.0	.006	2	200	250	63	1:1	2:1
	T-22300	84300	3000 CT	3000 CT	750	3.0	2.0	.006	1.8	240	300	75	1:1	2:1

SPECIFICATIONS

T SERIES - THROUGH HOLE



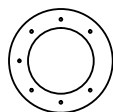
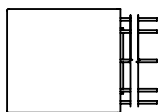
84000 SERIES - SURFACE MOUNT



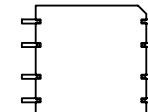
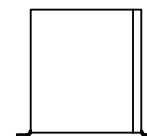
	Through Hole	Surface Mount	Primary Impedance [Ω]	Secondary Impedance with Split Windings		Power			Primary Unbalanced DC Current [mA]	Primary DCR [Ω]	Secondary DCR		Turns Ratio PRI:SEC	
				Series [Ω]	Parallel [Ω]	1kHz+ [W]	300Hz+ [W]	75Hz+ [W]			Series [Ω]	Parallel [Ω]	Series	Parallel
(1)	T-22305	84305	3000 CT	3000 CT	-	3.0	2.0	.006	1.8	240	300	-	1:1	-
	T-22310	84310	3600 CT	3600 CT	900	2.7	2.0	.006	1.7	288	360	90	1:1	2:1
	T-22312	84312	4000 CT	16 CT	4	2.5	2.0	.006	1.6	320	1.6	.4	15.8:1	31.6:1
	T-22314	84314	4000 CT	600 CT	150	2.5	2.0	.006	1.6	320	60	15	2.58:1	5.16:1
	T-22315	84315	4000 CT	1000 CT	250	2.5	2.0	.006	1.6	320	100	25	2:1	4:1
(1)	T-22320	84320	4000 CT	8000 CT	-	2.5	2.0	.006	1.6	320	800	-	1:1.41	-
	T-22325	84325	5000 CT	500 CT	125	2.0	2.0	.006	1.4	400	50	12.5	3.16:1	6.32:1
	T-22330	84330	5000 CT	5000 CT	1250	2.0	2.0	.006	1.4	400	500	125	1:1	2:1
	T-22335	84335	7500 CT	50 CT	12.5	1.3	1.3	.006	1.2	600	5	1.25	12.25:1	24.5:1
	T-22340	84340	7500 CT	100 CT	25	1.3	1.3	.006	1.2	600	10	2.5	8.66:1	17.32:1
	T-22345	84345	7500 CT	600 CT	150	1.3	1.3	.006	1.2	600	60	15	3.54:1	7.07:1
	T-22350	84350	7500 CT	2500 CT	625	1.3	1.3	.006	1.2	600	250	63	1.73:1	3.46:1
(1)	T-22355	84355	7500 CT	7500 CT	-	1.3	1.3	.006	1.2	600	750	-	1:1	-
	T-22360	84360	8000 CT	12.8 CT	3.2	1.2	1.2	.006	1.1	640	1.3	.32	25:1	50:1
	T-22365	84365	8000 CT	1000 CT	250	1.2	1.2	.006	1.1	640	100	25	2.83:1	5.66:1
(1)	T-22370	84370	8000 CT	1200 CT	-	1.2	1.2	.006	1.1	640	120	-	2.58:1	-
(1)	T-22375	84375	9000 CT	9000 CT	-	1.1	1.1	.006	1.1	720	900	-	1:1	-
	T-22380	84380	10,000 CT	12.8 CT	3.2	1.0	1.0	.006	1	800	1.3	.32	28:1	56:1
	T-22385	84385	10,000 CT	16 CT	4	1.0	1.0	.006	1	800	1.6	.4	25:1	50:1
	T-22390	84390	10,000 CT	100 CT	25	1.0	1.0	.006	1	800	10	2.5	10:1	20:1
	T-22395	84395	10,000 CT	200 CT	50	1.0	1.0	.006	1	800	20	5	7.07:1	14.14:1
	T-22400	84400	10,000 CT	500 CT	125	1.0	1.0	.006	1	800	50	12.5	4.47:1	8.94:1
	T-22405	84405	10,000 CT	600 CT	150	1.0	1.0	.006	1	800	60	15	4.08:1	8.16:1
	T-22410	84410	10,000 CT	1000 CT	250	1.0	1.0	.006	1	800	100	25	3.16:1	6.32:1

SPECIFICATIONS

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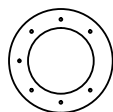
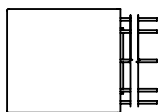
84000 SERIES - SURFACE MOUNT



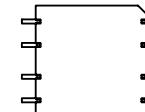
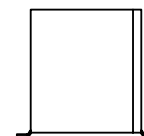
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				Series [Ω]	Parallel [Ω]	1kHz+ [W]	300Hz+ [W]	75Hz+ [W]			Series [Ω]	Parallel [Ω]	Series	Parallel
	T-22415	84415	10,000 CT	1200 CT	300	1.0	1.0	.006	1	800	120	30	2.89:1	5.77:1
	T-22420	84420	10,000 CT	1500 CT	375	1.0	1.0	.006	1	800	150	38	2.58:1	5.16:1
	T-22425	84425	10,000 CT	2000 CT	500	1.0	1.0	.006	1	800	200	50	2.24:1	4.47:1
	T-22430	84430	10,000 CT	5000 CT	1250	1.0	1.0	.006	1	800	500	125	1.41:1	2.83:1
	T-22435	84435	10,000 CT	7500 CT	1875	1.0	1.0	.006	1	800	750	188	1.16:1	2.31:1
	T-22440	84440	10,000 CT	10,000 CT	2500	1.0	1.0	.006	1	800	1000	250	1:1	2:1
(1)	T-22445	84445	10,000 CT	10,000 CT	-	1.0	1.0	.006	1	800	1000	-	1:1	-
	T-22450	84450	15,000 CT	400 CT	100	.66	.66	.006	.8	1200	40	10	6.12:1	12.25:1
	T-22452	84452	15,000 CT	500 CT	125	.66	.66	.006	.8	1200	50	12.5	5.48:1	10.95:1
	T-22455	84455	15,000 CT	600 CT	150	.66	.66	.006	.8	1200	60	15	5:1	10:1
	T-22460	84460	15,000 CT	10,000 CT	2500	.66	.66	.006	.8	1200	1000	250	1.22:1	2.45:1
(1)	T-22465	84465	15,000 CT	15,000 CT	-	.66	.66	.006	.8	1200	1500	-	1:1	-
	T-22470	84470	15,000 CT	15,000 CT	3750	.66	.66	.006	.8	1200	1500	375	1:1	2:1
	T-22475	84475	16,000 CT	1000 CT	250	.62	.62	.006	.8	1280	100	25	4:1	8:1
	T-22480	84480	20,000 CT	500 CT	125	.5	.5	.006	.7	1600	50	12.5	6.32:1	12.6:1
	T-22485	84485	20,000 CT	600 CT	150	.5	.5	.006	.7	1600	60	15	5.77:1	11.55:1
	T-22490	84490	20,000 CT	800 CT	200	.5	.5	.006	.7	1600	80	20	5:1	10:1
	T-22495	84495	20,000 CT	1000 CT	250	.5	.5	.006	.7	1600	100	25	4.47:1	8.94:1
	T-22500	84500	20,000 CT	5000 CT	1250	.5	.5	.006	.7	1600	500	125	2:1	4:1
	T-22505	84505	20,000 CT	10,000 CT	2500	.5	.5	.006	.7	1600	1000	250	1.41:1	2.83:1
(1)	T-22510	84510	20,000 CT	20,000 CT	-	.5	.5	.006	.7	1600	2000	-	1:1	-
	T-22515	84515	25,000 CT	500 CT	125	.4	.4	.006	.6	2000	50	12.5	7.07:1	14.14:1
	T-22520	84520	25,000 CT	1000 CT	250	.4	.4	.006	.6	2000	100	25	5:1	10:1
	T-22525	84525	30,000 CT	50 CT	12.5	.33	.33	.006	.6	2400	5	1.25	24.5:1	49:1

SPECIFICATIONS

T SERIES - THROUGH HOLE



83000 SERIES - SURFACE MOUNT



	Through Hole	Surface Mount	Primary Impedance [Ω]	Secondary Impedance with Split Windings		Power			Primary Unbalanced DC Current [mA]	Primary DCR [Ω]	Secondary DCR		Turns Ratio PRI:SEC	
				Series [Ω]	Parallel [Ω]	1kHz+ [W]	300Hz+ [W]	75Hz+ [W]			Series [Ω]	Parallel [Ω]	Series	Parallel
	T-22530	84530	30,000 CT	1200 CT	300	.33	.33	.006	.6	2400	120	30	5:1	10:1
	T-22532	84532	30,000 CT	500 CT	125	.33	.33	.006	.6	2400	50	12.5	7.7:1	15.5:1
	T-22534	84534	30,000 CT	200 CT	50	.33	.33	.006	.6	2400	20	5	12.2:1	24.5:1
	T-22535	84535	30,000 CT	5000 CT	1250	.33	.33	.006	.6	2400	500	125	2.45:1	4.9:1
	T-22540	84540	30,000 CT	10,000 CT	2500	.33	.33	.006	.6	2400	1000	250	1.73:1	3.46:1
(1)	T-22545	84545	30,000 CT	30,000 CT	-	.33	.33	.006	.6	2400	3000	-	1:1	-
	T-22550	84550	40,000 CT	400 CT	100	.25	.25	.006	.5	3200	40	10	10:1	20:1
	T-22555	84555	40,000 CT	2000 CT	500	.25	.25	.006	.5	3200	200	50	4.47:1	8.94:1
	T-22560	84560	40,000 CT	4000 CT	1000	.25	.25	.006	.5	3200	400	100	3.16:1	6.32:1
	T-22565	84565	40,000 CT	20,000 CT	5000	.25	.25	.006	.5	3200	2000	500	1.41:1	2.83:1
(1)	T-22570	84570	40,000 CT	40,000 CT	-	.25	.25	.006	.5	3200	4000	-	1:1	-
	T-22575	84575	50,000 CT	200 CT	50	.2	.2	.006	.4	4000	20	5	15.8:1	31.6:1
	T-22577	84577	50,000 CT	500 CT	125	.2	.2	.006	.4	4000	50	12.5	10:1	20:1
	T-22578	84578	50,000 CT	600 CT	150	.2	.2	.006	.4	4000	60	15	9.13:1	18.26:1
	T-22579	84579	50,000 CT	50,000 CT	12,500	.2	.2	.006	.4	4000	5000	1250	1:1	2:1
	T-22580	84580	60,000 CT	15,000 CT	3750	.16	.16	.006	.4	4800	1500	375	2:1	4:1
	T-22585	84585	62,500 CT	50 CT	12.5	.16	.16	.006	.4	5000	5	1.25	35.4:1	70.7:1
	T-22587	84587	80,000 CT	15,000 CT	3750	.12	.12	.006	.3	6400	1500	375	2.3:1	4.6:1

Note 1: Includes electrostatic shield

SPECIFICATIONS

GENERAL

Parameter	Condition	Min.	Typ.	Max.	Units
Dielectric Strength	60Hz	-	200	-	V _{RMS}
Insulation Resistance	300VDC	10	-	-	GΩ
Distortion	300Hz & 1kHz @ Rated Power	-	-	5	%
	20Hz @ Rated Power	-	-	10	
Frequency Response	20 - 25kHz @ 1mW	-3	-	3	dB
Operating Temperature Range	Ambient with temperature rise	-55	-	+130	°C
Storage Temperature Range	Ambient	-55	-	+105	°C
Size	T Series - Diameter x Height	0.75 x 0.82 (19.05 x 20.828)			inches (mm)
	84000 Series - Length x Width x Height	0.8 x 0.8 x 0.915 (20.32 x 20.32 x 23.241)			
Weight	T & 84000 Series	-	28	-	grams
Case	T Series	Epoxy Insulated Metal			
	84000 Series	Glass Reinforced Polymer			
Potting	Vacuum Impregnated Epoxy				
Box Packaging (W x H x L)	T Series	2.417 x 0.679 x 12.7 (61.392 x 17.247 x 322.58)			inches (mm)
Tube Packaging (W x H x L)	84000 Series	1.17 x 1.14 x 20.0 (29.718 x 28.956 x 508)			
Tape & Reel Packaging	Upon request				
Moisture Sensitivity Level	Surface Mount only	Level 3			

OPTIONAL DESIGN CRITERIA

Test	Standard	Description
Vibration	MIL-STD-202	Method 204, Vibration, High Frequency
Shock	MIL-STD-202	Method 213, Shock (Specified Pulse)
Immersion	MIL-STD-202	Method 104, Immersion
Moisture Resistance	MIL-STD-202	Method 106, Moisture Resistance
Flammability	MIL-STD-202	Method 111, Flammability (External Flame)
Thermal Shock	MIL-STD-202	Method 107, Thermal Shock

OPTIONAL SCREENING AND QUALIFICATION

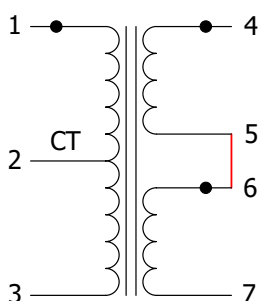
Standard	Screening & Qualification	Test ⁽²⁾
MIL-PRF-27	a.) Group A inspection Level-T - Table VII b.) Qualification inspection, Grade 5 - Table V	I. Thermal Shock II. Vibration III. Burn-in IV. Induced Voltage V. Shock VI. Dielectric Withstanding Voltage (at reduced pressure) VII. Insulation Resistance VIII. Electrical Characteristics IX. Visual and Mechanical Examination (External) X. Life XI. Radiographic Inspection
MIL-STD-981	a.) Group A screening tests - Table VI b.) Group B tests - Table XII, Class S	
EEE-INST-002, Section M1	a.) Magnetics Screening Req. - Table 2 b.) Magnetics Part Qual. - Table 3	

Note 2: Screening and qualification tests are not limited to the options in the chart above. Each standard may also be stringent or exclude certain tests from one another. Please contact Pico for specific application needs and for Pico part number.

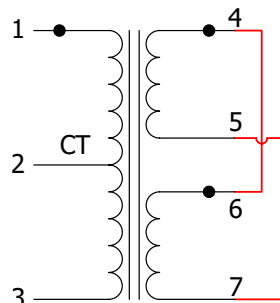
ELECTRICAL SCHEMATIC

T SERIES - THROUGH HOLE

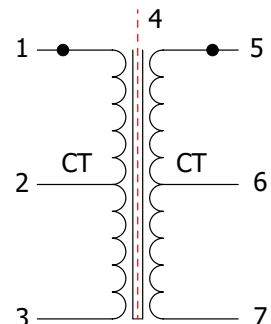
**SPLIT SECONDARIES
SERIES CONNECTION**



**SPLIT SECONDARIES
PARALLEL CONNECTION**

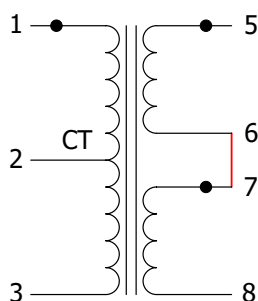


ELECTROSTATIC SHIELD

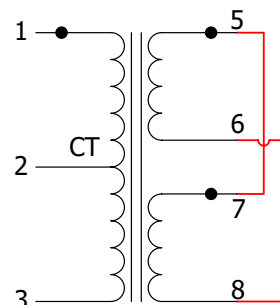


84000 SERIES - SURFACE MOUNT

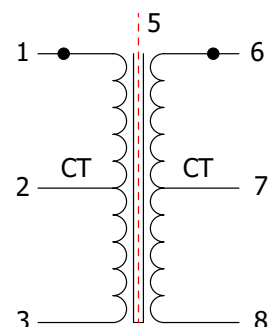
**SPLIT SECONDARIES
SERIES CONNECTION**



**SPLIT SECONDARIES
PARALLEL CONNECTION**



ELECTROSTATIC SHIELD

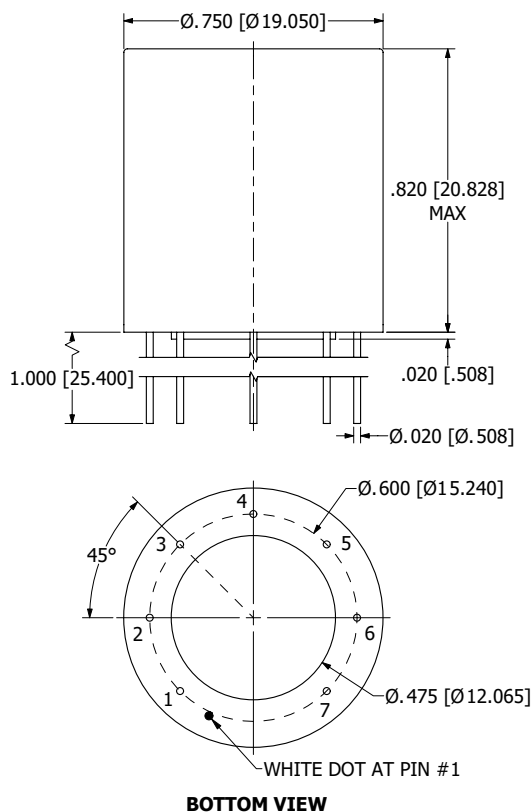


NOTES

- ANY TERMINALS NOT SHOWN HERE MAY BE USED FOR MECHANICAL STABILITY ON THE PCB ONLY, AS THEY DO NOT HAVE ANY ELECTRICAL CONNECTION.
- CT STANDS FOR "CENTER-TAP", WHERE THE TOTAL NUMBER OF TURNS IS EVENLY SPLIT BETWEEN THE TOP HALF AND BOTTOM HALF OF A COMPLETE WINDING.

MECHANICAL DRAWINGS

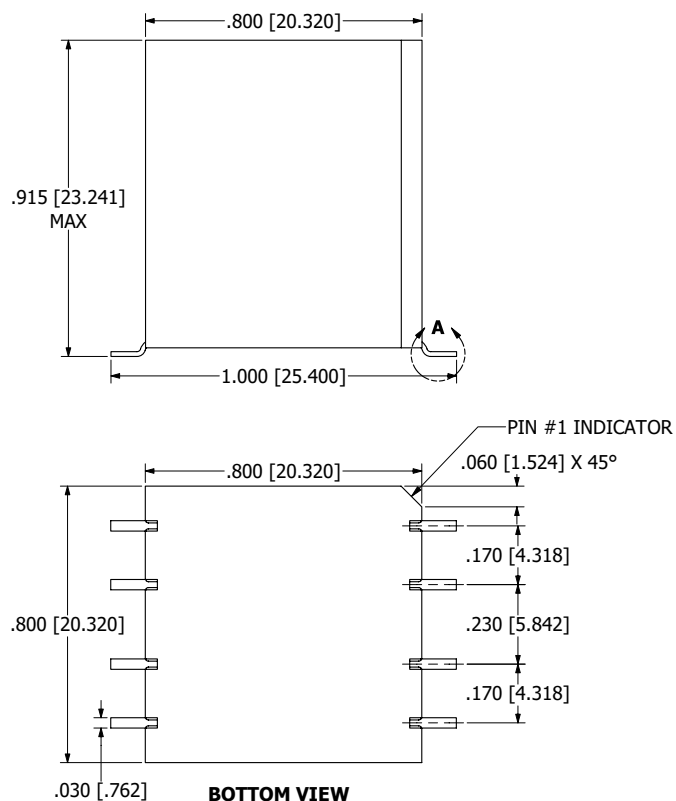
T SERIES - THROUGH HOLE



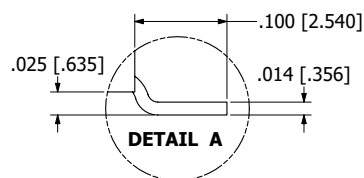
NOTES

- a. ALL DIMENSIONS ARE IN INCHES, [] = MM
- b. TERMINALS ARE CLOCKWISE FROM PIN #1

84000 SERIES - SURFACE MOUNT

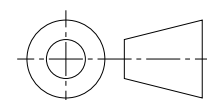


LEAD DETAILS



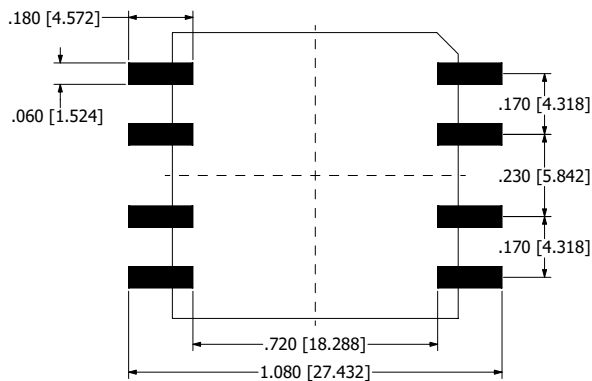
NOTES

- a. ALL DIMENSIONS ARE IN INCHES, [] = MM
- b. TERMINALS ARE CLOCKWISE FROM PIN #1
- c. PIN #4 HAS NO CONNECTION

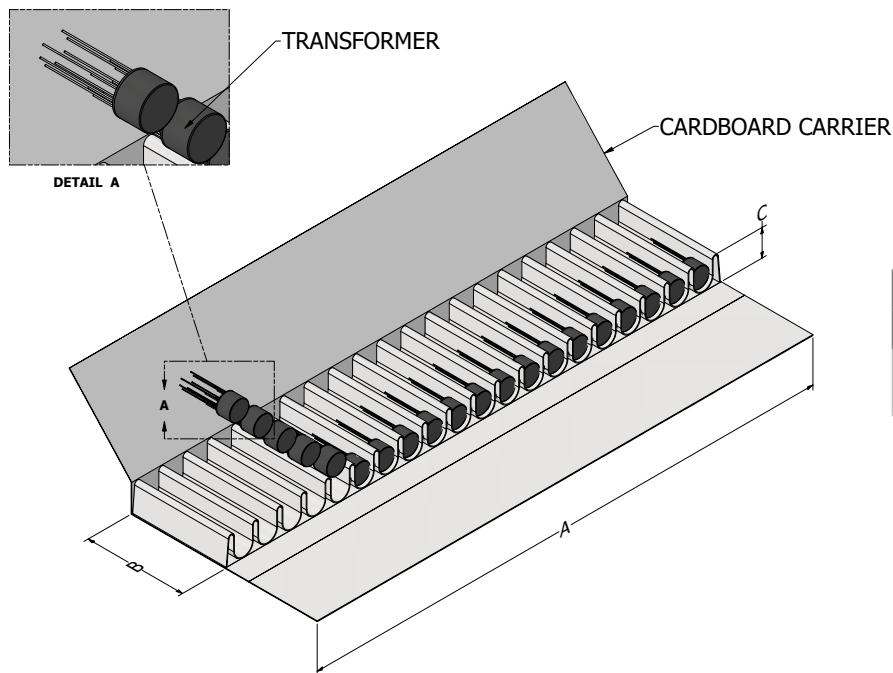


RECOMMENDED LAND PATTERN DIMENSIONS

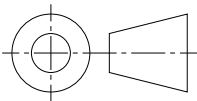
84000 SERIES - SQUARE SURFACE MOUNT



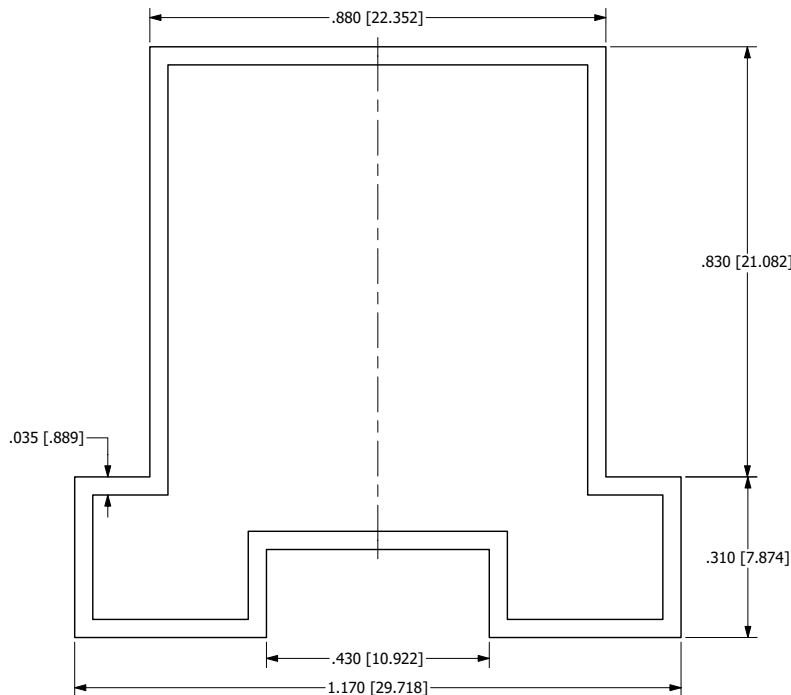
BOX PACKAGING - S SERIES



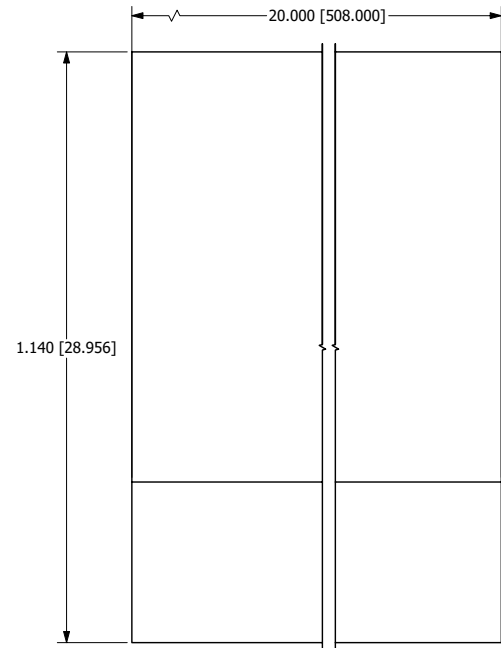
Dimension		
A	B	C
9.45 [240.03]	2.35 [59.69]	1.29 [32.766]



TUBE PACKAGING - 84000 SERIES

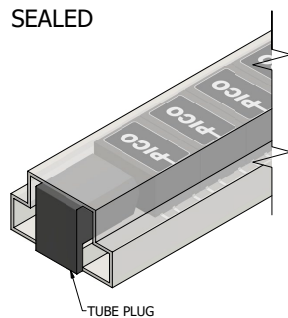


PLAN VIEW

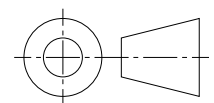
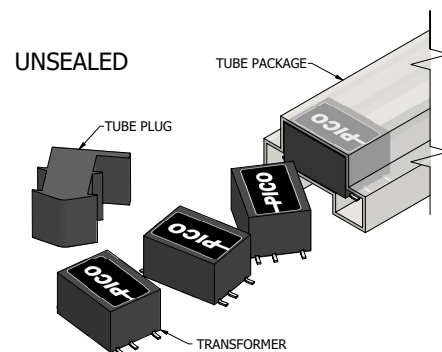


ELEVATION VIEW

SEALED



UNSEALED



Pico warrants each product manufactured by us and sold by us or an authorized representative, to be free from defects in material and workmanship. If properly used, it will perform within its applicable specifications for a period of one year after original shipment. Pico's obligation under this guarantee is limited to repairing or replacing our product to the original purchaser. This warranty is in lieu of all other warranties, express or implied and constitutes fulfillment of our obligations to the purchaser. We do not guarantee that the products can be used for a particular purpose other than those solely covered by the product's specifications. Pico must be notified if the product must meet particular certifications and/or standards. We assume no liability, in any event, for consequential damages, for anticipated or lost profits, incidental damages or loss of time or other losses incurred by the purchaser or any third party in connection with products covered by this warranty or otherwise. The purchaser will indemnify and hold Pico harmless for any damages, losses, costs, etc. from usage not within the product's specifications. Pico must be consulted before usage of its products in a nuclear, radioactive or space environment.

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