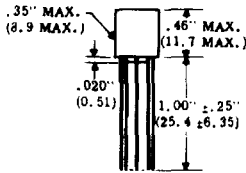


PICO's Ultra-miniature transformers

Y SERIES Plug-In



WHITE DOT AT TERMINAL #1
TERMINALS CLOCKWISE
FROM PIN #1

DIMENSIONS ARE IN INCHES (MM)

SPECIFICATIONS

- MIL-PRF-27:**
All units manufactured to MIL-PRF-27.
Grade 5, Class S
- FREQUENCY RESPONSE:**
±3db, 300 Hz-100 KHz at 1.0 Milliwatt.
- MAXIMUM DISTORTION:**
5% With Rated Power Level at 1 KHz, 400Hz and 300 Hz.
- 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:**
Solid .016 Diameter Conductor. Meet Solderability per MIL-STD-202 Method 208.
- THERMAL SHOCK:**
25 Cycles, Method 107, MIL-STD-202,
Test Condition -55°C to +130°C

For immediate engineering assistance
or to place an order -
Call Toll Free 800-431-1064

PICO

Electronics, Inc.

143 Sparks Avenue, Pelham, NY 10803-1837
FAX 914-738-8225

www.picoelectronics.com
E-Mail: info@picoelectronics.com

**Delivery -
stock to one week**

PICO PART NUMBER	PRIMARY IMPEDANCE OHMS	SECONDARY IMPEDANCE OHMS SPLIT WINDINGS		POWER WATTS			PRIMARY UNBALANCED DC CURRENT ma	PRIMARY DC RESISTANCE OHMS	SECONDARY DC RESISTANCE OHMS		TURNS/RATIO		PRICES 1-9***
		SER	PAR	10Kz and HIGHER	400 Hz and HIGHER	300 Hz and HIGHER			SER CONN	PAR CONN	SEC SER CONN	SEC PAR CONN	
Y-27003	10 ct	10 ct	2.5	.6	.2	.1	31.6	1	1.25	.32	1:1	2:1	24.74
Y-27005	20 ct	8 ct	2	.6	.2	.1	22.3	2	.9	.23	1.58:1	3.18:1	24.74
Y-27010	20 ct	20 ct	5	.6	.2	.1	22.3	2.1	2.25	.56	1:1	2:1	24.74
Y-27015	32 ct	32 ct	8	.6	.2	.1	17.6	3.4	4	1	1:1	2:1	24.74
Y-27020	40 ct	40 ct	10	.6	.2	.1	15.8	4.2	4.5	1.13	1:1	2:1	24.74
Y-27025	48 ct	16 ct	4	.6	.2	.1	14.4	5	1.8	.45	1.73:1	3.48:1	24.74
Y-27030	50 ct	50 ct	12.5	.6	.2	.1	14.1	5.25	5.6	1.4	1:1	2:1	24.74
Y-27035	80 ct	32 ct	8	.6	.2	.1	11.1	8.4	4	1	1.58:1	3.18:1	32.19
Y-27040	100 ct	40 ct	10	.6	.2	.1	10	10	4.5	1.13	1.58:1	3.18:1	32.19
Y-27045	100 ct	100 ct	25	.6	.2	.1	10	11	11.25	2.8	1:1	2:1	32.19
Y-27050	120 ct	12.8 ct	3.2	.6	.2	.1	9.1	14.4	1.8	.45	3.06:1	6.12:1	23.32
Y-27055	120 ct	60 ct	15	.6	.2	.1	9.1	14.4	8.4	2.1	1.41:1	2.83:1	30.81
Y-27060	120 ct	120 ct	30	.6	.2	.1	9.1	14.4	16.8	4.2	1:1	2:1	30.81
Y-27065	150 ct	12 ct	3	.6	.2	.1	8.2	15	1.5	.38	3.54:1	7.08:1	23.32
Y-27070	150 ct	50 ct	12.5	.6	.2	.1	8.2	15	6	1.5	1.73:1	3.46:1	25.93
Y-27075	150 ct	100 ct	25	.6	.2	.1	8.2	15	12	3	1.22:1	2.45:1	25.93
Y-27080	150 ct	150 ct	37.5	.6	.2	.1	8.2	15	18	4.5	1:1	2:1	30.80
Y-27085	150 ct	800 ct	150	.6	.2	.1	8.2	15	72	18	1:2	1:1	25.93
Y-27090	200 ct	200 ct	50	.6	.2	.1	7	22	24	6	1:1	2:1	25.93
Y-27095	300 ct	12 ct	3	.6	.2	.1	5.8	30	1.4	.35	5:1	10:1	23.32
Y-27100	300 ct	50 ct	12.5	.6	.2	.1	5.8	30	6	1.5	2.45:1	4.9:1	25.93
Y-27105	300 ct	150 ct	37.5	.6	.2	.1	5.8	30	18	4.5	1.41:1	2.83:1	25.93
Y-27110	300 ct	300 ct	75	.6	.2	.1	5.8	30	36	9	1:1	2:1	30.81
Y-27115	300 ct	600 ct	150	.6	.2	.1	5.8	30	72	18	1:1.41	1.41:1	24.47
Y-27120	320 ct	12.8 ct	3.2	.6	.2	.1	5.6	36	1.8	.45	5:1	10:1	23.32
Y-27125	400 ct	40 ct	10	.6	.2	.1	5	40	4.8	1.2	3.18:1	6.32:1	30.81
Y-27130	400 ct	120 ct	30	.6	.2	.1	5	40	14.5	3.8	1.83:1	3.65:1	30.81
Y-27135	400 ct	200 ct	50	.6	.2	.1	5	40	24	6	1.4:1	2.83:1	25.93
Y-27140	400 ct	400 ct	100	.6	.2	.1	5	40	48	12	1:1	2:1	30.81
Y-27145	400 ct	1000 ct	250	.6	.2	.1	5	40	125	31	1:1.58	1.28:1	35.34
Y-27150	400 ct	2000 ct	500	.6	.2	.1	5	40	240	60	1:2.24	1:1.12	35.34
Y-27155	400 ct	4000 ct	1000	.6	.2	.1	5	40	480	120	1:3.18	1:1.58	31.92
Y-27160	500 ct	12.8 ct	3.2	.6	.2	.1	4.5	50	1.5	.38	6.25:1	12.5:1	27.42
Y-27165	500 ct	16 ct	4	.6	.2	.1	4.5	50	1.9	.48	5.6:1	11.2:1	27.42
Y-27170	500 ct	50 ct	12.5	.6	.2	.1	4.5	50	6	1.5	3.18:1	6.32:1	27.42
Y-27175	500 ct	150 ct	37.5	.6	.2	.1	4.5	50	18	4.5	1.83:1	3.65:1	27.42
Y-27180	500 ct	500 ct	125	.6	.2	.1	4.5	50	80	15	1:1	2:1	27.42
Y-27185	*500 ct	500 ct	-	.6	.2	.1	4.5	50	80	-	1:1	-	27.42
Y-27190	500 ct	600 ct	150	.6	.2	.1	4.5	50	72	18	1:1.1	1.83:1	24.47
Y-27195	600 ct	12.8 ct	3.2	.6	.2	.1	4.1	60	1.5	.38	6.85:1	13.7:1	22.03
Y-27200	600 ct	30 ct	7.5	.6	.2	.1	4.1	60	3.6	.9	4.47:1	8.94:1	24.47
Y-27205	600 ct	48 ct	12	.6	.2	.1	4.1	60	5.8	1.45	3.54:1	7.07:1	24.47
Y-27210	600 ct	200 ct	50	.6	.2	.1	4.1	60	24	6	1.73:1	3.46:1	24.47
Y-27215**	600 ct	600 ct	150	.6	.2	.1	4.1	60	72	18	1:1	2:1	24.47
Y-27220**	*600 ct	600 ct	-	.6	.2	.1	4.1	60	72	-	1:1	-	24.47
Y-27225**	600 ct	1200 ct	300	.6	.2	.1	4.1	60	144	36	1:1.41	1.41:1	24.47
Y-27230	640 ct	12.8 ct	3.2	.6	.2	.1	3.9	64	1.5	.38	7.07:1	14.14:1	24.47
Y-27235	700 ct	100 ct	25	.6	.2	.1	3.8	70	12	3	2.65:1	5.29:1	24.47
Y-27240	800 ct	800 ct	3.2	.6	.2	.1	3.5	80	1.5	.38	7.9:1	15.8:1	24.47
Y-27245	800 ct	48 ct	12	.6	.2	.1	3.5	80	5.8	1.45	4.08:1	8.18:1	27.42
Y-27250	800 ct	800 ct	200	.6	.2	.1	3.5	80	96	24	1:1	2:1	27.42
Y-27255	900 ct	800 ct	150	.6	.2	.1	3.3	90	72	18	1.22:1	2.45:1	24.47
Y-27260	1000 ct	12 ct	3	.6	.2	.1	3.2	100	1.4	.35	9.13:1	18.3:1	24.47
Y-27265	1000 ct	50 ct	12.5	.6	.2	.1	3.2	100	6	1.5	4.47:1	8.94:1	27.42
Y-27270	1000 ct	1000 ct	250	.6	.2	.1	3.2	100	120	30	1:1	2:1	27.42
Y-27275	1060 ct	12.8 ct	3.2	.6	.2	.1	3.1	106	1.5	.38	9.1:1	18.2:1	24.47
Y-27280	1200 ct	12.8 ct	3.2	.6	.2	.1	2.9	120	1.5	.38	9.68:1	19.4:1	22.03
Y-27285	1200 ct	500 ct	125	.6	.2	.1	2.9	120	60	15	1.55:1	3.1:1	22.03
Y-27290	1200 ct	1200 ct	300	.6	.2	.1	2.9	120	144	36	1:1	2:1	22.03
Y-27295	*1200 ct	1200 ct	-	.6	.2	.1	2.9	120	144	-	1:1	-	24.47
Y-27300	1500 ct	12 ct	3	.6	.2	.1	2.8	150	1.44	.36	11.2:1	22.4:1	24.47
Y-27305	1500 ct	500 ct	125	.6	.2	.1	2.8	150	80	15	1.73:1	3.48:1	27.42
Y-27310	*1500 ct	600 ct	-	.6	.2	.1	2.6	150	72	-	1.58:1	-	35.34
Y-27315	*1500 ct	1500 ct	-	.6	.2	.1	2.6	150	180	-	1:1	-	27.42
Y-27320	1600 ct	12.8 ct	3.2	.6	.2	.1	2.5	160	1.5	.38	11.2:1	22.4:1	24.47
Y-27325	2000 ct	8 ct	2	.6	.2	.1	2.2	200	.96	.34	15.8:1	31.6:1	27.42
Y-27330	2000 ct	2000 ct	500	.6	.2	.1	2.2	200	240	60	1:1	2:1	31.92
Y-27335	*2000 ct	2000 ct	-	.6	.2	.1	2.2	200	240	-	1:1	-	35.34
Y-27340	2000 ct	8000 ct	2000	.6	.2	.1	2.2	200	960	240	1:2	1:1	31.92
Y-27345	2500 ct	2500 ct	625	.6	.2	.1	2	250	300	75	1:1	2:1	31.92
Y-27350	3000 ct	3000 ct	725	.6	.2	.1	1.8	300	360	90	1:1	2:1	37.64
Y-27355	*3000 ct	3000 ct	-	.6	.2	.1	1.8	300	360	-	1:1	-	35.34
Y-27360	3600 ct	3600 ct	900	.6	.2	.1	1.7	360	432	108	1:1	2:1	31.92
Y-27365	4000 ct	16 ct	4	.6	.2	.1	1.6	400	1.92	.48	15.8:1	31.6:1	31.92
Y-27370**	4000 ct	600 ct	150	.6	.2	.1	1.6	400	72	18	2.58:1	5.16:1	31.92
Y-27375	4000 ct	1000 ct	250	.6	.2	.1	1.6	400	120	30	2:1	4:1	31.92
Y-27380	*4000 ct	8000 ct	-	.6	.2	.1	1.6	400	960	-	1:1.41	-	31.92
Y-27385	5000 ct	500 ct	125	.5	.2	.1	1.4	500	60	15	3.18:1	6.32:1	25.66
Y-27390	5000 ct	5000 ct	1250	.5	.2	.1	1.4	500	600	150	1:1	2:1	25.66
Y-27395	7500 ct	50 ct	12.5	.33	.2	.1	1.2	750	6	1.5	12.2:1	24.5:1	25.66
Y-27400	7500 ct	100 ct	25	.33	.2	.1	1.2	750	12	3	8.66:1	17.3:1	27.16
Y-27405	7500 ct	600 ct	150	.33	.2	.1	1.2	750	72	18	3.54:1	7.07:1	30.14

*INCLUDES ELECTROSTATIC SHIELD

**MINIATURIZED TELEPHONE 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, New York

PICO's Ultra-miniature transformers

Y SERIES Plug-In

PICO PART NUMBER	PRIMARY IMPEDANCE OHMS	SECONDARY IMPEDANCE OHMS SPLIT WINDINGS		POWER WATTS			PRIMARY UNBALANCED DC CURRENT ma	PRIMARY DC RESISTANCE OHMS	SECONDARY DC RESISTANCE OHMS		TURNS/RATIO PRIM/SEC		PRICES 1-9***
		SER	PAR	100 Hz AND HIGHER	400 Hz AND HIGHER	300 Hz AND HIGHER			SER CONN	PAR CONN	SER SER CONN	SER PAR CONN	
Y-27410	7500 ct	2500 ct	625	.33	.2	.1	1.2	750	300	75	1.73:1	3.48:1	30.14
Y-27415	*7500 ct	7500 ct	-	.33	.2	.1	1.2	750	900	-	1:1	-	35.34
Y-27420	8000 ct	12.8ct	3.2	.3	.2	.1	1.1	800	1.5	.38	25:1	50:1	25.66
Y-27425	8000 ct	1000 ct	250	.3	.2	.1	1.1	800	120	30	2.83:1	5.68:1	25.66
Y-27430	*8000 ct	1200 ct	-	.3	.2	.1	1.1	800	144	-	2.58:1	-	31.92
Y-27435	*9000 ct	9000 ct	-	.27	.2	.1	1.1	900	1080	-	1:1	-	33.19
Y-27440	10,000 ct	12.8 ct	3.2	.25	.2	.1	1.0	1000	1.5	.38	28:1	56:1	24.47
Y-27445	10,000 ct	16ct	4	.25	.2	.1	1.0	1000	1.92	.48	25:1	50:1	27.05
Y-27450	10,000 ct	100 ct	25	.25	.2	.1	1.0	1000	12	3	10:1	20:1	27.05
Y-27455	10,000 ct	200 ct	50	.25	.2	.1	1.0	1000	24	6	7.07:1	14.14:1	27.05
Y-27460	10,000 ct	500 ct	125	.25	.2	.1	1.0	1000	60	15	4.47:1	8.94:1	27.05
Y-27465	10,000 ct	800 ct	150	.25	.2	.1	1.0	1000	72	18	4.08:1	8.16:1	27.05
Y-27470	10,000 ct	1000 ct	250	.25	.2	.1	1.0	1000	120	30	3.18:1	6.32:1	27.05
Y-27475	10,000 ct	1200 ct	300	.25	.2	.1	1.0	1000	144	36	2.89:1	5.77:1	27.05
Y-27480	10,000 ct	1500 ct	375	.25	.2	.1	1.0	1000	180	45	2.58:1	5.16:1	29.48
Y-27485	10,000 ct	2000 ct	500	.25	.2	.1	1.0	1000	240	60	2.24:1	4.47:1	29.48
Y-27490	10,000 ct	5000 ct	1250	.25	.2	.1	1.0	1000	600	150	1.41:1	2.83:1	31.55
Y-27495	10,000 ct	7500 ct	1875	.25	.2	.1	1.0	1000	900	225	1.15:1	2.3:1	31.55
Y-27500	10,000 ct	10000 ct	2500	.25	.2	.1	1.0	1000	1200	300	1:1	2:1	30.81
Y-27505	*10,000 ct	10000 ct	-	.25	.2	.1	1.0	1000	1200	-	1:1	-	34.36
Y-27510	15,000 ct	400 ct	100	.18	.16	.1	.82	1500	48	12	6.12:1	12.24:1	30.81
Y-27515	15,000 ct	500 ct	125	.18	.16	.1	.82	1500	60	15	5.48:1	10.95:1	30.81
Y-27520	15,000 ct	800 ct	150	.18	.16	.1	.82	1500	72	18	5.1	10:1	30.81
Y-27525	15,000 ct	10000 ct	2500	.18	.16	.1	.82	1500	1200	300	1.22:1	2.45:1	34.36
Y-27530	*15,000 ct	15000 ct	-	.18	.16	.1	.82	1500	1800	-	1:1	-	30.36
Y-27535	15,000 ct	15000 ct	3750	.18	.16	.1	.82	1500	1800	450	1:1	2:1	30.36
Y-27540	16,000 ct	1000 ct	250	.15	.15	.1	.8	1800	120	30	4:1	8:1	31.92
Y-27545	20,000 ct	500 ct	125	.125	.125	.1	.7	2000	60	15	6.33:1	12.65:1	30.81
Y-27550	20,000 ct	600 ct	150	.125	.125	.1	.7	2000	72	18	5.77:1	11.55:1	30.81
Y-27555	20,000 ct	800 ct	200	.125	.125	.1	.7	2000	96	24	5:1	10:1	24.47
Y-27560	20,000 ct	1000 ct	250	.125	.125	.1	.7	2000	120	30	4.47:1	8.94:1	30.81
Y-27565	20,000 ct	5000 ct	1250	.125	.125	.1	.7	2000	600	150	2:1	4:1	30.81
Y-27570	20,000 ct	10000 ct	2500	.125	.125	.1	.7	2000	1200	300	1.41:1	2.83:1	30.81
Y-27575	*20,000 ct	20000 ct	-	.125	.125	.1	.7	2000	2400	-	1:1	-	30.81
Y-27580	25,000 ct	500 ct	125	.1	.1	.1	.83	2500	60	15	7.07:1	14.14:1	30.81
Y-27585	25,000 ct	1000 ct	250	.1	.1	.1	.83	2500	120	30	5:1	10:1	30.81
Y-27590	30,000 ct	50 ct	12.5	.08	.08	.08	.58	3000	6	1.5	24.5:1	49:1	30.81
Y-27595	30,000 ct	1200 ct	300	.08	.08	.08	.58	3000	144	36	5:1	10:1	30.81
Y-27600	30,000 ct	500 ct	125	.08	.08	.08	.58	3000	60	15	7.75:1	15.5:1	30.81
Y-27605	30,000 ct	200 ct	50	.08	.08	.08	.58	3000	24	6	12.25:1	24.5:1	30.81
Y-27610	30,000 ct	5000 ct	1250	.08	.08	.08	.58	3000	600	150	2.45:1	4.9:1	34.34
Y-27615	30,000 ct	10000 ct	2500	.08	.08	.08	.58	3000	1200	300	1.73:1	3.48:1	34.34
Y-27620	*30,000 ct	30000 ct	-	.08	.08	.08	.58	3000	3600	-	1:1	-	34.34
Y-27625	40,000 ct	400 ct	100	.06	.06	.06	.5	4000	48	12	10:1	20:1	34.34
Y-27630	40,000 ct	2000 ct	500	.06	.06	.06	.5	4000	240	60	4.47:1	8.94:1	34.34
Y-27635	40,000 ct	4000 ct	1000	.06	.06	.06	.5	4000	480	120	3.18:1	6.32:1	35.62
Y-27640	40,000 ct	20000 ct	5000	.06	.06	.06	.5	4000	2400	600	1.41:1	2.83:1	34.34
Y-27645	*40,000 ct	40000 ct	-	.06	.06	.06	.5	4000	4800	-	1:1	-	34.34
Y-27650	50,000 ct	200 ct	50	.05	.05	.05	.45	5000	24	6	15.8:1	31.6:1	35.62
Y-27655	50,000 ct	500 ct	125	.05	.05	.05	.45	5000	60	15	10:1	20:1	35.62
Y-27660	50,000 ct	600 ct	150	.05	.05	.05	.45	5000	72	18	9.13:1	18.26:1	35.62
Y-27665	80,000 ct	15000 ct	3750	.04	.04	.04	.41	8000	1800	450	2:1	4:1	35.62
Y-27670	82,500 ct	50 ct	12.5	.04	.04	.04	.4	8250	6	1.5	35.4:1	70:1	35.62
Y-27675	80,000 ct	15000 ct	3750	.03	.03	.03	.35	8000	1800	450	2.3:1	4.6:1	35.62
Y-27680	90,000 ct	10000 ct	2500	.028	.028	.028	.33	9000	1200	300	3:1	6:1	35.62
Y-27685	95,000 ct	15000 ct	3750	.026	.026	.026	.32	9500	1800	450	2.52:1	5.03:1	35.62
Y-27690	100,000 ct	60 ct	15	.025	.025	.025	.31	10000	7.2	1.8	40.8:1	81.6:1	39.42
Y-27695	100,000 ct	100 ct	25	.025	.025	.025	.31	10000	12	3	31.8:1	63.2:1	39.42
Y-27700	100,000 ct	500 ct	125	.025	.025	.025	.31	10000	60	15	14.1:1	28.3:1	39.42
Y-27705	100,000 ct	10000 ct	2500	.025	.025	.025	.31	10000	1200	300	3.18:1	6.32:1	39.42

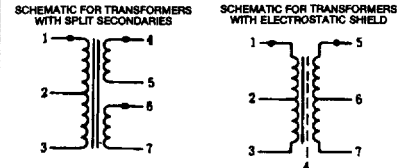
Y-SHIELD MU-METAL SHIELD .37" d x .49" h (6.4mm x 12.5mm h) SINGLE SHIELD

YX-SHIELD DMU-METAL SHIELD .395" x .5" h (10.1mm d x 12.7mm h) USE WITH Y-SHIELD FOR DOUBLE SHIELDING

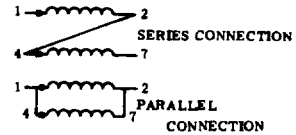
*INCLUDES ELECTROSTATIC SHIELD

***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, New York



Schematic for inductors



FEATURES

- EXTREME RESISTANCE TO THERMAL SHOCK
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**Delivery -
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INDUCTORS
ALL INDUCTORS HAVE SPLIT WINDINGS AND MEASUREMENTS ARE LISTED FOR BOTH SERIES AND PARALLEL CONNECTIONS.
TWO VALUES OF INDUCTANCE, EACH AT A PARTICULAR VALUE OF D.C. CURRENT, ARE LISTED FOR EACH INDUCTOR.

PICO PART NUMBER	INDUCTANCE HENRIES	DC CURRENT	DC RESISTANCE	PRICE 1-9***
Y-27750	SERIES { .075 .06 .018	10 30 20	10.5	23.34
	PARALLEL { .015 .015	60 60	2.6	
	PARALLEL { .015 .015	60 60	2.6	
Y-27760	SERIES { .3 .15 .075	4 20 8	25	25.95
	PARALLEL { .04 .04	40 40	6.2	
	PARALLEL { .04 .04	40 40	6.2	
Y-27770	SERIES { 3.5 1.0 0.9	2 5 4	560	25.95
	PARALLEL { 0.25 0.25	10 10	140	
	PARALLEL { 0.25 0.25	10 10	140	
Y-27780	SERIES { 8.0 1.5 1.5	2 5 4	2100	25.95
	PARALLEL { 0.38 0.38	10 10	525	
	PARALLEL { 0.38 0.38	10 10	525	
Y-27790	SERIES { 20 8 5	1 3 2	5100	31.92
	PARALLEL { 5 5	2 2	1275	
	PARALLEL { 5 5	2 2	1275	