

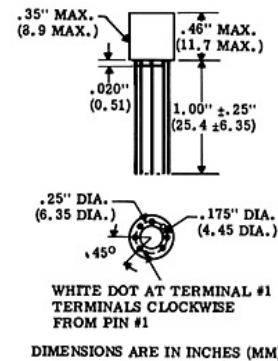


Ultra Miniature Transformers

Y Series Plug-In

Specifications

- **MIL-PRF-27:** All units manufactured to MIL-PRF-27, Grade 5 Class S.
- **FREQUENCY RESPONSE:** $\pm 3\text{db}$, 300 Hz - 100 KHz at 1.0 Milliwatt.
- **MAXIMUM DISTORTION:** 5% With Rated Power Level at 1 KHz and 400 Hz 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 $+130^{\circ}\text{C}$
- **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 $+130^{\circ}\text{C}$



[Larger size drawing of Y Series](#)

Ultra Miniature Transformers: Y Series													
Pico Part Number	Prim. Imped. Ohms	Sec. Imped. Ohms Split Windings		Power Watts			Prim. Unbal. DC Curr. ma	Prim. DC Resist. Ohms	Sec. DC Resist. Ohms		Turns Ratio Prim/Sec.		Prices 1-9 *** (US \$)
		SER	PAR	1 KHz and higher	400 Hz and higher	300 Hz and higher			Ser Conn	Par Conn	Sec Ser Conn	Sec Par Conn	
Y-27003	10ct	10ct	2.5	.6	.2	.1	31.6	1	1.25	.32	1:1	2:1	49.42
Y-27005	20ct	8ct	2	.6	.2	.1	22.3	2	.9	.23	1.58:1	3.16:1	49.42
Y-27010	20ct	20ct	5	.6	.2	.1	22.3	2.1	2.25	.56	1:1	2:1	49.42
Y-27015	32ct	32ct	8	.6	.2	.1	17.6	3.4	4	1	1:1	2:1	49.42
Y-27020	40ct	40ct	10	.6	.2	.1	15.8	4.2	4.5	1.13	1:1	2:1	49.42
Y-27025	48ct	16ct	4	.6	.2	.1	14.4	5	1.8	.45	1.73:1	3.46:1	49.42
Y-27030	50ct	50ct	12.5	.6	.2	.1	14.1	5.25	5.6	1.4	1:1	2:1	49.42
Y-27035	80ct	32ct	8	.6	.2	.1	11.1	8.4	4	1	1.58:1	3.16:1	64.94
Y-27040	100ct	40ct	10	.6	.2	.1	10	10	4.5	1.13	1.58:1	3.16:1	64.94
Y-27045	100ct	100ct	25	.6	.2	.1	10	11	11.25	2.8	1:1	2:1	64.95

Ultra Miniature Transformers: Y Series													
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		SER	PAR	1 KHz and higher	400 Hz and higher	300 Hz and higher			Ser Conn	Par Conn	Sec Ser Conn	Sec Par Conn	
Y-27050	120ct	12.8ct	3.2	.6	.2	.1	9.1	14.4	1.8	.45	3.06:1	6.12:1	47.06
Y-27055	120ct	60ct	15	.6	.2	.1	9.1	14.4	8.4	2.1	1.41:1	2.83:1	62.17
Y-27060	120ct	120ct	30	.6	.2	.1	9.1	14.4	16.8	4.2	1:1	2:1	62.17
Y-27065	150ct	12ct	3	.6	.2	.1	8.2	15	1.5	.38	3.54:1	7.08:1	47.06
Y-27070	150ct	50ct	12.5	.6	.2	.1	8.2	15	6	1.5	1.73:1	3.46:1	52.32
Y-27075	150ct	100ct	25	.6	.2	.1	8.2	15	12	3	1.22:1	2.45:1	52.32
Y-27080	150ct	150ct	37.5	.6	.2	.1	8.2	15	18	4.5	1:1	2:1	61.74
Y-27085	150ct	600ct	150	.6	.2	.1	8.2	15	72	18	1:2	1:1	52.32
Y-27090	200ct	200ct	50	.6	.2	.1	7	22	24	6	1:1	2:1	52.32
Y-27095	300ct	12ct	3	.6	.2	.1	5.8	30	1.4	.35	5:1	10:1	47.06
Y-27100	300ct	50ct	12.5	.6	.2	.1	5.8	30	6	1.5	2.45:1	4.9:1	52.32
Y-27105	300ct	150ct	37.5	.6	.2	.1	5.8	30	18	4.5	1.41:1	2.83:1	52.32
Y-27110	300ct	300ct	75	.6	.2	.1	5.8	30	36	9	1:1	2:1	62.17
Y-27115	300ct	600ct	150	.6	.2	.1	5.8	30	72	18	1:1.41	1.41:1	49.38
Y-27120	320ct	12.8ct	3.2	.6	.2	.1	5.6	36	1.8	.45	5:1	10:1	47.06
Y-27125	400ct	40ct	10	.6	.2	.1	5	40	4.8	1.2	3.16:1	6.32:1	62.17
Y-27130	400ct	120ct	30	.6	.2	.1	5	40	14.5	3.6	1.83:1	3.65:1	62.17
Y-27135	400ct	200ct	50	.6	.2	.1	5	40	24	6	1.41:1	2.83:1	52.32

Y-27140	400ct	400ct	100	.6	.2	.1	5	40	48	12	1:1	2:1	62.17
Y-27145	400ct	1000ct	250	.6	.2	.1	5	40	125	31	1:1.58	1.26:1	71.30
Y-27150	400ct	2000ct	500	.6	.2	.1	5	40	240	60	1:2.24	1:1.12	71.30
Y-27155	400ct	4000ct	1000	.6	.2	.1	5	40	480	120	1:3.16	1:1.58	64.40
Y-27160	500ct	12.8ct	3.2	.6	.2	.1	4.5	50	1.5	.38	6.25:1	12.5:1	55.32
Y-27165	500ct	16ct	4	.6	.2	.1	4.5	50	1.9	.48	5.6:1	11.2:1	55.32
Y-27170	500ct	50ct	12.5	.6	.2	.1	4.5	50	6	1.5	3.16:1	6.32:1	55.32
Y-27175	500ct	150ct	37.5	.6	.2	.1	4.5	50	18	4.5	1.83:1	3.65:1	55.32
Y-27180	500ct	500ct	125	.6	.2	.1	4.5	50	60	15	1:1	2:1	55.32
Y-27185	*500ct	500ct	-	.6	.2	.1	4.5	50	60	-	1:1	-	55.32
Y-27190	500ct	600ct	150	.6	.2	.1	4.5	50	72	18	1:1.1	1.83:1	49.38
Y-27195	600ct	12.8ct	3.2	.6	.2	.1	4.1	60	1.5	.38	6.85:1	13.7:1	44.44
Y-27200	600ct	30ct	7.5	.6	.2	.1	4.1	60	3.6	.9	4.47:1	8.94:1	49.38
Y-27205	600ct	48ct	12	.6	.2	.1	4.1	60	5.8	1.45	3.54:1	7.07:1	49.38
Y-27210	600ct	200ct	50	.6	.2	.1	4.1	60	24	6	1.73:1	3.46:1	49.38
Y-27215**	600ct	600ct	150	.6	.2	.1	4.1	60	72	18	1:1	2:1	49.38
Y-27220**	*600ct	600ct	-	.6	.2	.1	4.1	60	72	-	1:1	-	49.38
Y-27225**	600ct	1200ct	300	.6	.2	.1	4.1	60	144	36	1:1.41	1.41:1	49.38
Y-27230	640ct	12.8ct	3.2	.6	.2	.1	3.9	64	1.5	.38	7.07:1	14.14:1	49.38
Y-27235	700ct	100ct	25	.6	.2	.1	3.8	70	12	3	2.65:1	5.29:1	49.38
Y-27240	800ct	12.8ct	3.2	.6	.2	.1	3.5	80	1.5	.38	7.9:1	15.8:1	49.38
Y-27245	800ct	48ct	12	.6	.2	.1	3.5	80	5.8	1.45	4.08:1	8.16:1	55.32
Y-27250	800ct	800ct	200	.6	.2	.1	3.5	80	96	24	1:1	2:1	55.32
Y-27255	900ct	600ct	150	.6	.2	.1	3.3	90	72	18	1.22:1	2.45:1	49.38
Y-27260	1000ct	12ct	3	.6	.2	.1	3.2	100	1.4	.35	9.13:1	18.3:1	49.38
Y-27265	1000ct	50ct	12.5	.6	.2	.1	3.2	100	6	1.5	4.47:1	8.94:1	55.32
Y-27270	1000ct	1000ct	250	.6	.2	.1	3.2	100	120	30	1:1	2:1	55.32

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		SER	PAR	1 KHz and higher	400 Hz and higher	300 Hz and higher			Ser Conn	Par Conn	Sec Ser Conn	Sec Par Conn	
Y-27275	1060ct	12.8ct	3.2	.6	.2	.1	3.1	106	1.5	.38	9.1:1	18.2:1	49.38
Y-27280	1200ct	12.8ct	3.2	.6	.2	.1	2.9	120	1.5	.38	9.68:1	19.4:1	44.44
Y-27285	1200ct	500ct	125	.6	.2	.1	2.9	120	60	15	1.55:1	3.1:1	44.44
Y-27290	1200ct	1200ct	300	.6	.2	.1	2.9	120	144	36	1:1	2:1	44.44
Y-27295	*1200ct	1200ct	-	.6	.2	.1	2.9	120	144	-	1:1	-	49.38
Y-27300	1500ct	12ct	3	.6	.2	.1	2.6	150	1.44	.36	11.2:1	22.4:1	49.38
Y-27305	1500ct	500ct	125	.6	.2	.1	2.6	150	60	15	1.73:1	3.46:1	55.32
Y-27310	*1500ct	600ct	-	.6	.2	.1	2.6	150	72	-	1.58:1	-	71.30
Y-27315	*1500ct	1500ct	-	.6	.2	.1	2.6	150	180	-	1:1	-	55.32
Y-27320	1600ct	12.8ct	3.2	.6	.2	.1	2.5	160	1.5	.38	11.2:1	22.4:1	49.38
Y-27325	2000ct	8ct	2	.6	.2	.1	2.2	200	.96	.24	15.8:1	31.6:1	55.32
Y-27330	2000ct	2000ct	500	.6	.2	.1	2.2	200	240	60	1:1	2:1	64.40
Y-27335	*2000ct	2000ct	-	.6	.2	.1	2.2	200	240	-	1:1	-	71.30
Y-27340	2000ct	8000ct	2000	.6	.2	.1	2.2	200	960	240	1:2	1:1	64.40
Y-27345	2500ct	2500ct	625	.6	.2	.1	2	250	300	75	1:1	2:1	64.40
Y-27350	3000ct	3000ct	725	.6	.2	.1	1.8	300	360	90	1:1	2:1	75.95
Y-27355	*3000ct	3000ct	-	.6	.2	.1	1.8	300	360	-	1:1	-	71.30
Y-27360	3600ct	3600ct	900	.6	.2	.1	1.7	360	432	108	1:1	2:1	64.40
Y-27365	4000ct	16ct	4	.6	.2	.1	1.6	400	1.92	.48	15.8:1	31.6:1	64.40
Y-27370**	4000ct	600ct	150	.6	.2	.1	1.6	400	72	18	2.58:1	5.16:1	64.40
Y-27375	4000ct	1000ct	250	.6	.2	.1	1.6	400	120	30	2:1	4:1	64.40
Y-27380	*4000ct	8000ct	-	.6	.2	.1	1.6	400	960	-	1:1.41	-	64.40
Y-27385	5000ct	500ct	125	.5	.2	.1	1.4	500	60	15	3.16:1	6.32:1	51.78
Y-27390	5000ct	5000ct	1250	.5	.2	.1	1.4	500	600	150	1:1	2:1	51.78
Y-27395	7500ct	50ct	12.5	.33	.2	.1	1.2	750	6	1.5	12.2:1	24.5:1	51.78
Y-27400	7500ct	100ct	25	.33	.2	.1	1.2	750	12	3	8.66:1	17.3:1	54.80
Y-27405	7500ct	600ct	150	.33	.2	.1	1.2	750	72	18	3.54:1	7.07:1	60.78
Y-27410	7500ct	2500ct	625	.33	.2	.1	1.2	750	300	75	1.73:1	3.46:1	60.79
Y-27415	*7500ct	7500ct	-	.33	.2	.1	1.2	750	900	-	1:1	-	71.30
Y-27420	8000ct	12.8ct	3.2	.3	.2	.1	1.1	800	1.5	.38	25:1	50:1	51.78
Y-27425	8000ct	1000ct	250	.3	.2	.1	1.1	800	120	30	2.83:1	5.66:1	51.78
Y-27430	*8000ct	1200ct	-	.3	.2	.1	1.1	800	144	-	2.58:1	-	64.40
Y-27435	*9000ct	9000ct	-	.27	.2	.1	1.1	900	1080	-	1:1	-	66.96
Y-27440	10,000ct	12.8ct	3.2	.25	.2	.1	1.0	1000	1.5	.38	28:1	56:1	49.38
Y-27445	10,000ct	16ct	4	.25	.2	.1	1.0	1000	1.92	.48	25:1	50:1	54.59
Y-27450	10,000ct	100ct	25	.25	.2	.1	1.0	1000	12	3	10:1	20:1	54.59
Y-27455	10,000ct	200ct	50	.25	.2	.1	1.0	1000	24	6	7.07:1	14.14:1	54.59
Y-27460	10,000ct	500ct	125	.25	.2	.1	1.0	1000	60	15	4.47:1	8.94:1	54.59
Y-27465	10,000ct	600ct	150	.25	.2	.1	1.0	1000	72	18	4.08:1	8.16:1	54.59
Y-27470	10,000ct	1000ct	250	.25	.2	.1	1.0	1000	120	30	3.16:1	6.32:1	54.59
Y-27475	10,000ct	1200ct	300	.25	.2	.1	1.0	1000	144	36	2.89:1	5.77:1	54.59
Y-27480	10,000ct	1500ct	375	.25	.2	.1	1.0	1000	180	45	2.58:1	5.16:1	59.49
Y-27485	10,000ct	2000ct	500	.25	.2	.1	1.0	1000	240	60	2.24:1	4.47:1	59.49
Y-27490	10,000ct	5000ct	1250	.25	.2	.1	1.0	1000	600	150	1.41:1	2.83:1	63.67
Y-27495	10,000ct	7500ct	1875	.25	.2	.1	1.0	1000	900	225	1.15:1	2.3:1	63.67
Y-27500	10,000ct	10,000ct	2500	.25	.2	.1	1.0	1000	1200	300	1:1	2:1	62.17
Y-27505	*10,000ct	10,000ct	-	.25	.2	.1	1.0	1000	1200	-	1:1	-	69.32

Ultra Miniature Transformers: Y Series													
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		SER	PAR	1 KHz and higher	400 Hz and higher	300 Hz and higher			Ser Conn	Par Conn	Sec Ser Conn	Sec Par Conn	
Y-27510	15,000ct	400ct	100	.16	.16	.1	.82	1500	48	12	6.12:1	12.24:1	62.17
Y-27515	15,000ct	500ct	125	.16	.16	.1	.82	1500	60	15	5.48:1	10.95:1	62.17
Y-27520	15,000ct	600ct	150	.16	.16	.1	.82	1500	72	18	5:1	10:1	62.17
Y-27525	15,000ct	10,000ct	2500	.16	.16	.1	.82	1500	1200	300	1.22:1	2.45:1	69.32
Y-27530	*15,000ct	15,000ct	-	.16	.16	.1	.82	1500	1800	-	1:1	-	61.25
Y-27535	15,000ct	15,000ct	3750	.16	.16	.1	.82	1500	1800	450	1:1	2:1	61.25
Y-27540	16,000ct	1000ct	250	.15	.15	.1	.8	1600	120	30	4:1	8:1	64.40
Y-27545	20,000ct	500ct	125	.125	.125	.1	.7	2000	60	15	6.33:1	12.65:1	62.17
Y-27550	20,000ct	600ct	150	.125	.125	.1	.7	2000	72	18	5.77:1	11.55:1	62.17
Y-27555	20,000ct	800ct	200	.125	.125	.1	.7	2000	96	24	5:1	10:1	49.38
Y-27560	20,000ct	1000ct	250	.125	.125	.1	.7	2000	120	30	4.47:1	8.94:1	62.17
Y-27565	20,000ct	5000ct	1250	.125	.125	.1	.7	2000	600	150	2:1	4:1	62.17
Y-27570	20,000ct	10,000ct	2500	.125	.125	.1	.7	2000	1200	300	1.41:1	2.83:1	62.17
Y-27575	*20,000ct	20,000ct	-	.125	.125	.1	.7	2000	2400	-	1:1	-	62.17
Y-27580	25,000ct	500ct	125	.1	.1	.1	.63	2500	60	15	7.07:1	14.14:1	62.17
Y-27585	25,000ct	1000ct	250	.1	.1	.1	.63	2500	120	30	5:1	10:1	62.17
Y-27590	30,000ct	50ct	12.5	.08	.08	.08	.58	3000	6	1.5	24.5:1	49:1	62.17
Y-27595	30,000ct	1200ct	300	.08	.08	.08	.58	3000	144	36	5:1	10:1	62.17
Y-27600	30,000ct	500ct	125	.08	.08	.08	.58	3000	60	15	7.75:1	15.5:1	62.17
Y-27605	30,000ct	200ct	50	.08	.08	.08	.58	3000	24	6	12.25:1	24.5:1	62.17
Y-27610	30,000ct	5000ct	1250	.08	.08	.08	.58	3000	600	150	2.45:1	4.9:1	69.29
Y-27615	30,000ct	10,000ct	2500	.08	.08	.08	.58	3000	1200	300	1.73:1	3.46:1	69.29
Y-27620	*30,000ct	30,000ct	-	.08	.08	.08	.58	3000	3600	-	1:1	-	69.29
Y-27625	40,000ct	400ct	100	.06	.06	.06	.5	4000	48	12	10:1	20:1	69.29
Y-27630	40,000ct	2000ct	500	.06	.06	.06	.5	4000	240	60	4.47:1	8.94:1	69.29
Y-27635	40,000ct	4000ct	1000	.06	.06	.06	.5	4000	480	120	3.16:1	6.32:1	71.86
Y-27640	40,000ct	20,000ct	5000	.06	.06	.06	.5	4000	2400	600	1.41:1	2.83:1	69.29
Y-27645	*40,000ct	40,000ct	-	.06	.06	.06	.5	4000	4800	-	1:1	-	69.29
Y-27650	50,000ct	200ct	50	.05	.05	.05	.45	5000	24	6	15.8:1	31.6:1	71.86
Y-27655	50,000ct	500ct	125	.05	.05	.05	.45	5000	60	15	10:1	20:1	71.86
Y-27660	50,000ct	600ct	150	.05	.05	.05	.45	5000	72	18	9.13:1	18.26:1	71.86
Y-27665	60,000ct	15,000ct	3750	.04	.04	.04	.41	6000	1800	450	2:1	4:1	71.86
Y-27670	62,500ct	50ct	12.5	.04	.04	.04	.4	6250	6	1.5	35.4:1	70.7:1	71.86
Y-27675	80,000ct	15,000ct	3750	.03	.03	.03	.35	8000	1800	450	2.3:1	4.6:1	71.86
Y-27680	90,000ct	10,000ct	2500	.028	.028	.028	.33	9000	1200	300	3:1	6:1	71.86
Y-27685	95,000ct	15,000ct	3750	.026	.026	.026	.32	9500	1800	450	2.52:1	5.03:1	71.86
Y-27690	100,000ct	60ct	15	.025	.025	.025	.31	10,000	7.2	1.8	40.8:1	81.6:1	79.54
Y-27695	100,000ct	100ct	25	.025	.025	.025	.31	10,000	12	3	31.6:1	63.2:1	79.54
Y-27700	100,000ct	500ct	125	.025	.025	.025	.31	10,000	60	15	14.1:1	28.3:1	79.54
Y-27705	100,000ct	10,000ct	2500	.025	.025	.025	.31	10,000	1200	300	3.16:1	6.32:1	79.54
Y-SHIELD: MU-METAL SHIELD .37" DIA. X .46" HT (9.4 MM DIA. X 11.7 MM HT.) SINGLE SHIELD													8.50
YXX-SHIELD: MU-METAL SHIELD .395" DIA. X .47" HT (10.1 MM DIA. X 11.9 MM HT.) USE WITH Y-SHIELD FOR DOUBLE SHIELDING													8.50

*Includes Electrostatic Shield

**Miniaturized telephone coupling application

***Discount Prices:

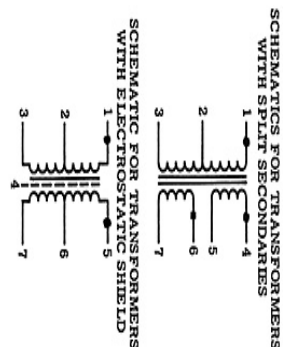
1-9 Net;
 10-24 less 10%;
 25-49 less 16%;
 50-99 less 23%;
 100-499 less 30%

Ordering Instructions:

No minimum.
 Net 30 days F.O.B. Pelham, 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.
- Special production techniques ensure uniform size and leads which are free of encapsulant. No meniscus in lead area.
- Every unit can be made with a 300 thermal cycle guarantee using PICO's special SR construction. Contact factory for details.



INDUCTORS				
PART NUMBERS	INDUCTANCE SERIES	DC CURRENT ma	DC RESISTANCE OHMS	PRICE 1-9*** (US \$)
Y-27750	SERIES .075	10	10.5	47.09
	.06	30		
	PARALLEL .018	20	2.6	
Y-27760	.015	60	25	52.35
	SERIES .3	4		
	.15	20	6.2	
Y-27770	PARALLEL .075	8	560	52.35
	.04	40		
	SERIES 3.5	2	140	
Y-27780	1.0	5	2100	52.35
	PARALLEL 0.9	4		
	.25	10	525	
Y-27790	SERIES 6.0	2	5100	64.40
	1.5	5		
	PARALLEL 1.5	4	1275	
	.38	10		
	SERIES 20	1		
	8	3		
	PARALLEL 5	2		
	2	6		

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 DC Current, are listed for each inductor.

Delivery - stock to one week for sample orders.



For immediate engineering assistance or to place an order:

Call Toll Free: 800-431-1064

PICO Electronics, Inc.

143 Sparks Ave. Pelham, NY 10803-1810

Tel: 914-738-1400 or Fax: 914-738-8225

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