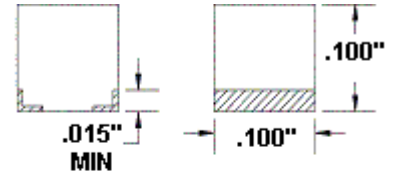


PA Series

Piconics PA series fixed, chip inductor provides a cubed shape which, is easily handled by automatic equipment for assembly into thick or thin film circuitry. Other unique features are also offered by this series. An Edge plating is provided for forming a solder fillet. The special metallization on the contact area prevents leaching of the gold plating from the substrate. The internal connections are welded so that the soldering process cannot loosen them. The overall design and materials are carefully selected to withstand several attachments and removals using reflow techniques without damage or degradation in performance. PA series surface mount inductors are an ideal choice for high-density substrates used in military and commercial radars, test instrumentation and medical instruments.

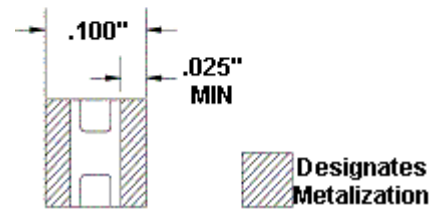
FEATURES:

- High Packing Density
- Reflow Soldering



ABSOLUTE MAXIMUM RATINGS:

- Operating/Storage temperature: -55° C to +125° C
- Temperature rise (at 90° C): 35° C
- Dielectric withstanding voltage: Method 301 of MIL-STD-202, Test voltage 700 volts rms
- Barometric Pressure: Method 105 test condition C of MIL-STD-202, (70,000 feet), test voltage 200 volts rms.



PHYSICAL CHARACTERISTICS:

- Terminations: Alumina substrate base; gold plated over nickel; welded internal connection.
- Case: Diallyl Phthalate.
- Weight: 0.5 gram maximum.

Part number	L μ H +/- 10%	Q Min	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PA100K8I	.010	36	200	1200	.03	750
PA120K8I	.012	30	200	1200	.03	750
PA150K8I	.015	30	200	1200	.05	750
PA180K8I	.018	30	200	1200	.06	750
PA220K8I	.022	30	200	1000	.07	750
PA270K8I	.027	30	200	1000	.08	750
PA330K8I	.033	30	200	1000	.08	640
PA390K8I	.039	30	200	1000	.09	600
PA470K8I	.047	30	100	1000	.10	550
PA560K8I	.056	30	100	1000	.13	520
PA680K8I	.068	30	100	800	.14	480
PA820K8I	.082	30	100	800	.15	470
PA101K8I	.10	30	25	750	.16	460
PA121K8I	.12	30	25	700	.17	455
PA151K8I	.15	30	25	650	.19	450
PA181K8I	.18	30	25	600	.20	430
PA221K8I	.22	30	25	570	.30	350
PA271K8I	.27	30	25	500	.35	310
PA331K8I	.33	30	25	400	.72	280
PA391K8I	.39	30	25	380	.80	250
PA471K8I	.47	30	25	350	1.26	230
PA561K8I	.56	30	25	325	1.3	220
PA681K8I	.68	30	25	300	1.4	210
PA821K8I	.82	30	25	250	1.5	200
PA102K8I	1.0	25	7.9	220	1.6	200

Part number	L μ H +/- 10%	Q Min	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PA122K6I	1.2	25	7.9	175	1.7	200
PA152K6I	1.5	25	7.9	135	2.5	190
PA182K6I	1.8	25	7.9	120	3.0	185
PA222K6I	2.2	25	7.9	75	3.3	180
PA272K6I	2.7	25	7.9	85	3.65	175
PA332K6I	3.3	25	7.9	70	4.0	170
PA392K6I	3.9	25	7.9	60	4.2	165
PA472K6I	4.7	25	7.9	50	4.2	165
PA562K6I	5.6	25	7.9	40	4.2	165
PA682K6I	6.8	25	7.9	30	4.2	165
PA822K6I	8.2	25	7.9	22	4.3	120
PA103K3F	10	20	2.5	20	4.7	105
PA123K3F	12	20	2.5	15	5.0	91
PA153K3F	15	20	2.5	13	5.0	87
PA183K3F	18	20	2.5	12	5.0	81
PA223K3F	22	20	2.5	10	5.0	77
PA273K3F	27	20	2.5	9	5.0	73
PA333K3F	33	20	2.5	9	5.7	69
PA393K3F	39	20	2.5	6.5	6.5	65
PA473K3F	47	20	2.5	6.2	6.0	63
PA563K3F	56	20	2.5	6	6.3	60
PA683K3F	68	20	2.5	5.8	6.7	57
PA823K3F	82	20	2.5	5.2	7.5	55
PA104K3F	100	20	.79	4	13	50