

## PG Series

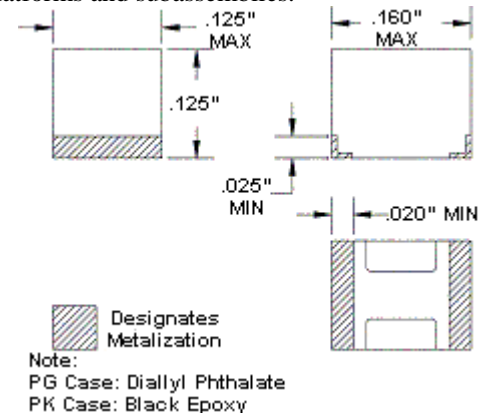
Piconics PG series fixed, chip inductor provides a rectangular shape, which is easily handled by automatic equipment for assembly into thick or thin film circuitry. Other unique features are also offered by this series. An Edge plating is provided for forming a solder fillet. The special metallization on the contact area prevents leaching of the gold plating from the substrates. The ceramic substrate is interlocked into the molded diallyl phthalate case and the internal connections are welded. The overall design and materials are carefully selected to withstand several attachments and removals using reflow techniques without damage or degradation in performance. The series is qualified to MIL-C\_83446/14. PG fixed surface mount inductors satisfy numerous applications in aviation and space based communications and control platforms and subassemblies.

### FEATURES:

- High Packing Density
- Reflow Solderable
- QPL Listed

### ABSOLUTE MAXIMUM RATINGS:

- Operating temperature: -55° C to +125° C
- Storage temperature: -55° C to + 125° C
- Dielectric withstanding voltage Method 301 of MIL-STD-202, test voltage 200 volts rms
- Barometric pressure: Method 105, test condition C, MIL-STD-202, (70,000 feet), test voltage 200 volts rms.



### PHYSICAL CHARACTERISTICS:

- Termination: Alumina substrate base.
- Gold plated over nickel.
- Welded internal connections.
- PG Case: Diallyl Phthalate.
- Weight: 0.5 gram maximum.

Part number	L uH	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PG100K8I	.010	35	200	1200	.03	750
PG120K8I	.012	35	200	1200	.04	750
PG150K8I	.015	35	200	1200	.05	710
PG180K8I	.018	35	200	1200	.06	670
PG220K8I	.022	35	200	1000	.07	630
PG270K8I	.027	35	200	1000	.08	590
PG330K8I	.033	35	200	1000	.08	550
PG390K8I	.039	35	200	1000	.09	520
PG470K8I	.047	35	100	1000	.12	500
PG560K8I	.056	35	100	1000	.12	480
PG680K8I	.068	35	100	800	.13	460
PG820K8I	.082	35	100	800	.14	440
PG101K8I	.10	32	25	750	.16	420
PG121K8I	.12	32	25	700	.20	410
PG151K8I	.15	32	25	650	.25	370
PG181K8I	.18	32	25	600	.30	340
PG221K8I	.22	32	25	550	.40	310
PG271K8I	.27	32	25	480	.45	290
PG331K8I	.33	32	25	400	.60	270
PG391K8I	.39	32	25	350	.80	250
PG471K8I	.47	32	25	330	1.0	230
PG561K8I	.56	32	25	300	1.2	220
PG681K8I	.68	32	25	300	1.4	210
PG821K8I	.82	32	25	250	1.5	205
PG102K6I	1.0	30	25	220	1.8	200

Part number	L uH	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PG122K6I	1.2	30	7.9	175	2.0	195
PG152K6I	1.5	30	7.9	135	2.5	190
PG182K6I	1.8	30	7.9	120	3.0	185
PG222K6I	2.2	30	7.9	95	3.8	180
PG272K6I	2.7	30	7.9	85	4.0	175
PG332K6I	3.3	30	7.9	70	4.2	170
PG392K6I	3.9	30	7.9	60	4.3	165
PG472K6I	4.7	30	7.9	50	4.5	160
PG562K6I	5.6	30	7.9	40	4.7	155
PG682K6I	6.8	30	7.9	30	4.9	150
PG822K6I	8.2	30	7.9	22	5.0	120
PG103K3F	10	28	7.9	20	5.1	105
PG123K3F	12	28	2.5	15	5.2	91
PG153K3F	15	28	2.5	13	5.4	87
PG183K3F	18	28	2.5	12	5.6	81
PG223K3F	22	28	2.5	10	5.8	77
PG273K3F	27	28	2.5	9	6.0	73
PG333K3F	33	28	2.5	8	6.0	69
PG393K3F	39	28	2.5	7	6.5	65
PG473K3F	47	28	2.5	6	6.7	63
PG563K3F	56	28	2.5	6	6.8	60
PG683K3F	68	28	2.5	6	7.0	57
PG823K3F	82	28	2.5	5	7.5	55
PG104K3F	100	25	2.5	4	11	50