

## PK Series

Piconics PK 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 epoxy 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:

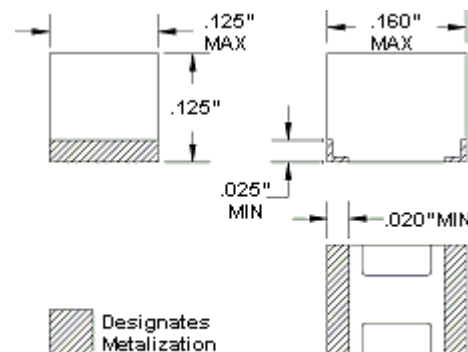
- High Packing Density
- Reflow Solderable

### ABSOLUTE MAXIMUM RATINGS:

- Operating/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
- PK Case: Black Epoxy
- Weight: 0.5 gram maximum.



Note:  
 PG Case: Diallyl Phthalate  
 PK Case: Black Epoxy

Part number	L uH +/- 10%	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PK100K8I	.010	35	200	1200	.03	750
PK120K8I	.012	35	200	1200	.04	750
PK150K8I	.015	35	200	1200	.05	710
PK180K8I	.018	35	200	1200	.06	670
PK220K8I	.022	35	200	1000	.07	630
PK270K8I	.027	35	200	1000	.08	590
PK330K8I	.033	35	200	1000	.08	550
PK390K8I	.039	35	200	1000	.09	520
PK470K8I	.047	35	100	1000	.12	500
PK560K8I	.056	35	100	1000	.12	480
PK680K8I	.068	35	100	800	.13	460
PK820K8I	.082	35	100	800	.14	440
PK101K8I	.10	32	25	750	.16	420
PK121K8I	.12	32	25	700	.20	410
PK151K8I	.15	32	25	650	.25	370
PK181K8I	.18	32	25	600	.30	340
PK221K8I	.22	32	25	550	.40	310
PK271K8I	.27	32	25	480	.45	290
PK331K8I	.33	32	25	400	.60	270
PK391K8I	.39	32	25	350	.80	250
PK471K8I	.47	32	25	330	1.0	230
PK561K8I	.56	32	25	300	1.2	220
PK681K8I	.68	32	25	300	1.4	210
PK821K8I	.82	32	25	250	1.5	205
PK102K6I	1.0	30	25	220	1.8	200

Part number	L uH +/- 10%	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PK122K6I	1.2	30	7.9	175	2.0	195
PK152K6I	1.5	30	7.9	135	2.5	190
PK182K6I	1.8	30	7.9	120	3.0	185
PK222K6I	2.2	30	7.9	95	3.8	180
PK272K6I	2.7	30	7.9	85	4.0	175
PK332K6I	3.3	30	7.9	70	4.2	170
PK392K6I	3.9	30	7.9	60	4.3	165
PK472K6I	4.7	30	7.9	50	4.5	160
PK562K6I	5.6	30	7.9	40	4.7	155
PK682K6I	6.8	30	7.9	30	4.9	150
PK822K6I	8.2	30	7.9	22	5.0	120
PK103K3F	10	28	7.9	20	5.1	105
PK123K3F	12	28	2.5	15	5.2	91
PK153K3F	15	28	2.5	13	5.4	87
PK183K3F	18	28	2.5	12	5.6	81
PK223K3F	22	28	2.5	10	5.8	77
PK273K3F	27	28	2.5	9	6.0	73
PK333K3F	33	28	2.5	8	6.0	69
PK393K3F	39	28	2.5	7	6.5	65
PK473K3F	47	28	2.5	6	6.7	63
PK563K3F	56	28	2.5	6	6.8	60
PK683K3F	68	28	2.5	6	7.0	57
PK823K3F	82	28	2.5	5	7.5	55
PK104K3F	100	25	2.5	4	11	50