

## P Series

Piconics P series is a fixed, conformal-coated chip inductor, with gold plated wrap around contacts so that soldering simultaneously anchors the chip and completes the electrical connections. The spacing between the external connections is relatively large to prevent shorting between contacts during circuit insertion. The P series is qualified to military specification MIL-C-83446, FSC 5950, and shown on the Qualified Product List (QPL) M83446/15.

### FEATURES:

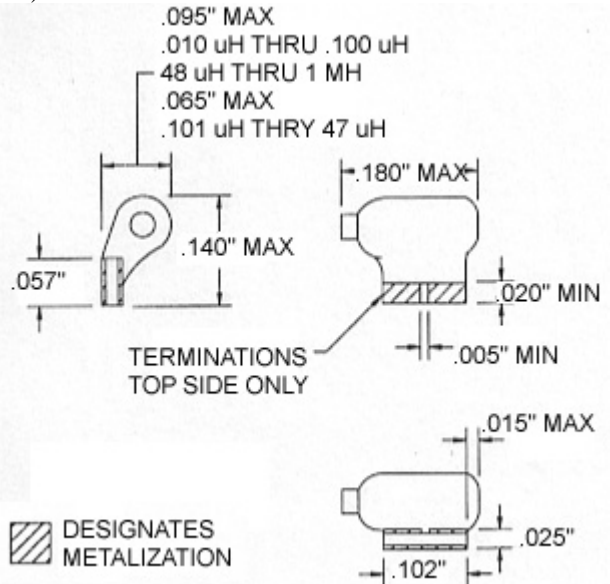
- Minimum Height
- Gold Contacts
- Substrate Mountable

### ABSOLUTE MAXIMUM RATINGS:

- Operating/Storage temperature: -55° C to +125° C
- Maximum operating temperature: 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 connection.
- Case: Conformal Coated Epoxy
- Weight: 0.5 gram maximum.



Part number	L uH +/- 10%	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
P100K8I	.01	35	200	1200	.04	750
P120K8I	.012	35	200	1200	.05	750
P150K8I	.015	35	200	1200	.07	750
P180K8I	.018	35	200	1200	.08	750
P220K8I	.022	35	200	1000	.08	750
P270K8I	.027	35	200	1000	.08	750
P330K8I	.033	35	200	1000	.08	640
P390K8I	.039	35	200	1000	.09	600
P470K8I	.047	35	100	1000	.10	550
P560K8I	.056	35	100	1000	.10	520
P680K8I	.068	32	100	800	.10	480
P820K8I	.082	32	100	800	.12	470
P101K8I	.10	32	25	750	.24	460
P121K8I	.12	32	25	700	.26	455
P151K8I	.15	32	25	650	.29	450
P181K8I	.18	32	25	600	.30	430
P221K8I	.22	32	25	570	.45	350
P271K8I	.27	32	25	500	.53	310
P331K8I	.33	32	25	400	.72	280
P391K8I	.39	32	25	380	.80	250
P471K8I	.47	32	25	350	1.2	230
P561K8I	.56	32	25	325	1.3	220
P681K8I	.68	32	25	300	1.4	210
P821K8I	.82	32	25	250	1.5	200
P102K6I	1.0	30	7.9	220	1.6	200
P122K6I	1.2	30	7.9	175	1.7	200
P152K6I	1.5	30	7.9	135	2.5	190
P182K6I	1.8	30	7.9	120	3.0	185
P222K6I	2.2	30	7.9	95	3.3	180
P272K6I	2.7	30	7.9	85	3.6	175
P332K6I	3.3	30	7.9	70	4.0	170

Part number	L uH +/- 10%	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
P392K6I	3.9	30	7.9	60	4.2	165
P472K6I	4.7	30	7.9	50	4.2	165
P562K6I	5.6	30	7.9	40	4.2	165
P682K6I	6.8	30	7.9	30	4.2	165
P822K6I	8.2	30	7.9	22	4.3	120
P103K3F	10	28	2.5	20	4.7	105
P123K3F	12	28	2.5	15	5.0	91
P153K3F	15	28	2.5	13	5.0	87
P183K3F	18	28	2.5	12	5.0	81
P223K3F	22	28	2.5	10	5.0	77
P273K3F	27	28	2.5	9.0	5.0	73
P333K3F	33	28	2.5	9.0	5.7	69
P393K3F	39	28	2.5	6.5	6.5	65
P473K3F	47	28	2.5	6.2	6.0	63
P563K3F	56	28	2.5	6.0	6.3	60
P683K3F	68	28	2.5	5.8	6.7	57
P823K3F	82	28	2.5	5.2	7.5	55
P104K3F	100	24	.79	4.0	13	50
P124K3F	128	24	.79	4.0	14	40
P154K3F	150	24	.79	3.9	16	36
P184K3F	180	24	.79	3.5	18	33
P224K3F	220	24	.79	3.2	21	28
P274K3F	270	24	.79	3.1	23	25
P334K3F	330	24	.79	2.8	37	20
P394K3F	390	24	.79	2.5	39	17
P474K3F	470	24	.79	2.3	45	15
P564K3F	560	24	.79	2.2	47	13
P684K3F	680	24	.79	2.1	62	12
P824K3F	820	24	.79	2.1	78	11
P105K3F	1000	20	.79	1.1	96	10