

## PW Series

Piconics PW 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 PW series is qualified to military specification MIL-C-83446, FSC 5950, and shown the Qualified Products List (QPL) M83446/15.

### FEATURES:

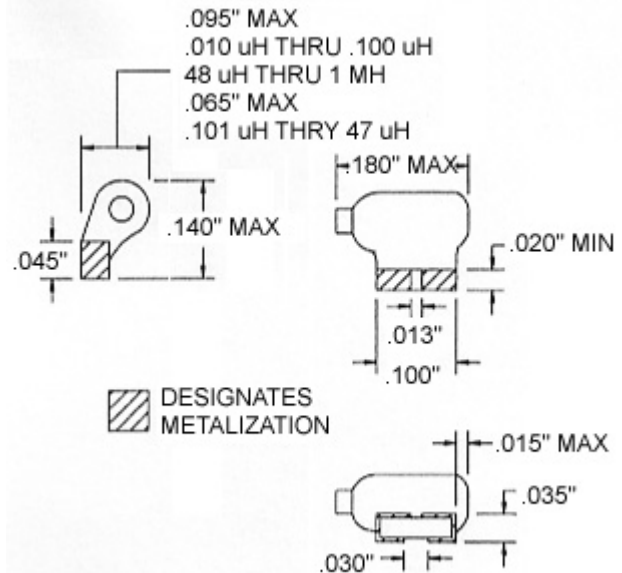
- Minimum Height
- Gold Contacts
- Substrate Mountable

### 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. MIL-STD-202 voltage 200 volts rms.

### PHYSICAL CHARACTERISTICS:

- Termination: Alumina substrate base; gold plated over nickel; welded internal connection.
- Case: Conformal Coated Epoxy.
- Weight: .05 gram maximum.



Part number	L uH +/- 10%	Q Min at LMax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PW100K8I	.01	36	200	1200	.04	750
PW120K8I	.012	30	200	1200	.05	750
PW150K8I	.015	30	200	1200	.07	750
PW180K8I	.018	30	200	1200	.08	750
PW220K8I	.022	45	200	1000	.08	750
PW270K8I	.027	30	200	1000	.08	750
PW330K8I	.033	30	200	1000	.08	640
PW390K8I	.039	30	200	1000	.09	600
PW470K8I	.047	30	100	1000	.10	550
PW560K8I	.056	30	100	1000	.10	520
PW680K8I	.068	30	100	800	.2	480
PW820K8I	.082	30	100	800	.12	470
PW101K8I	.10	30	25	750	.24	460
PW121K8I	.12	32	25	700	.26	455
PW151K8I	.15	40	25	650	.29	450
PW181K8I	.18	30	25	600	.30	430
PW221K8I	.22	42	25	570	.45	350
PW271K8I	.27	40	25	500	.53	310
PW331K8I	.33	36	25	400	.72	280
PW391K8I	.39	35	25	380	.80	250
PW471K8I	.47	38	25	350	1.2	230
PW561K8I	.56	40	25	325	1.3	220
PW681K8I	.68	40	25	300	1.4	210
PW821K8I	.82	40	25	250	1.5	200
PW102K6I	1.0	37	25	220	1.6	200
PW122K6I	1.2	35	7.9	175	1.7	200
PW152K6I	1.5	31	7.9	135	2.5	190
PW182K6I	1.8	30	7.9	120	3.0	185
PW222K6I	2.2	40	7.9	95	3.3	180
PW272K6I	2.7	32	7.9	85	3.7	175
PW332K6I	3.3	32	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
PW392K6I	3.9	32	7.9	60	4.2	165
PW472K6I	4.7	32	7.9	50	4.2	165
PW562K6I	5.6	35	7.9	40	4.2	165
PW682K6I	6.8	43	7.9	30	4.2	165
PW822K6I	8.2	40	7.9	22	4.3	120
PW103K3F	10	40	2.5	20	4.7	105
PW123K3F	12	35	2.5	15	5.0	91
PW153K3F	15	35	2.5	13	5.0	87
PW183K3F	18	35	2.5	12	5.0	81
PW223K3F	22	35	2.5	10	5.0	77
PW273K3F	27	38	2.5	9.0	5.0	73
PW333K3F	33	35	2.5	9.0	5.7	69
PW393K3F	39	35	2.5	6.5	6.5	65
PW473K3F	47	35	2.5	6.2	6.0	63
PW563K3F	58	35	2.5	6.0	6.3	60
PW683K3F	68	30	2.5	5.8	6.7	57
PW823K3F	82	35	2.5	5.2	7.5	55
PW104K3F	100	33	2.5	4.0	13	50
PW124K3F	120	33	.79	4.0	14	40
PW154K3F	150	35	.79	3.9	16	36
PW184K3F	180	35	.79	3.5	18	33
PW224K3F	220	35	.79	3.2	21	28
PW274K3F	270	35	.79	3.1	23	25
PW334K3F	330	35	.79	2.8	37	20
PW394K3F	390	35	.79	2.5	39	17
PW474K3F	470	35	.79	2.3	45	15
PW564K3F	560	35	.79	2.2	47	13
PW684K3F	680	35	.79	2.1	62	12
PW824K3F	820	35	.79	2.1	78	11
PW105K3F	1000	33	.79	1.1	96	10