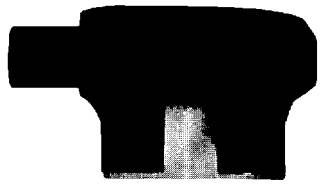
PW SERIES

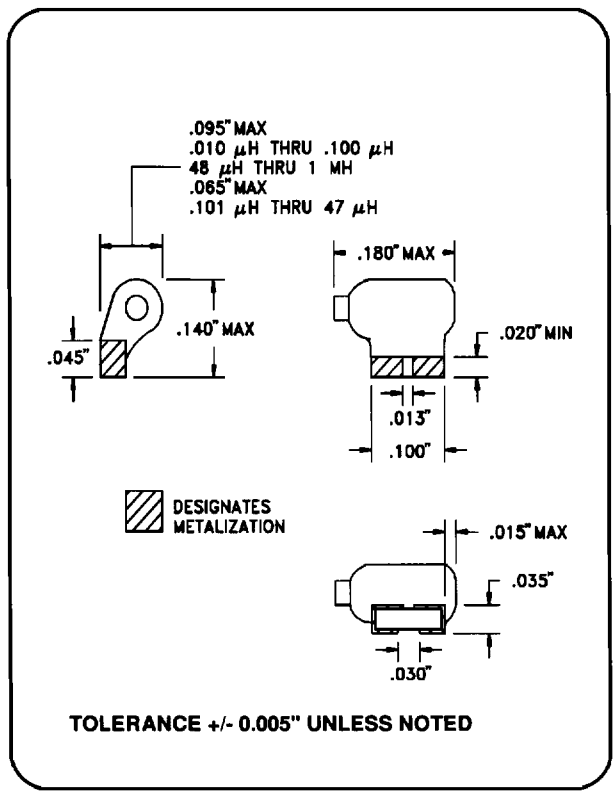


Piconics PW series,is a fixed, conformal coated chip inductor,with gold plated wrap around contacts so that soldering simultaneously anchors the chip and completes the electrical connections. The spacing between the external connections is relatively large to prevent shorting between contacts during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

ELECTRICAL CHARACTERISTICS

Piconics Part Nmber	Military Specification	L uH +/-10%	Q Min	Test Freq MHz	SRF Min MHz	DCR Max Ohms	Idc Max ma
PW100K-8I	M83446/15- 1	.010	36	200	1200	.04	750
PW120K-8I	M83446/15- 2	.012	30	200	1200	.05	750
PW150K-8I	M83446/15- 3	.015	30	200	1200	.07	750
PW180K-8I	M83446/15- 4	.018	30	200	1200	.08	750
PW220K-8I	M83446/15- 5	.022	45	200	1000	.08	750
PW270K-8I	M83446/15- 6	.027	30	200	1000	.08	750
PW330K-8I	M83446/15- 7	.033	30	200	1000	.08	640
PW390K-8I	M83446/15- 8	.039	30	200	1000	.09	600
PW470K-8I	M83446/15- 9	.047	30	100	1000	.10	550
PW560K-8I	M83446/15-10	.056	30	100	1000	.10	520
PW680K-8I	M83446/15-11	.068	30	100	800	.10	480
PW820K-8I	M83446/15-12	.082	30	100	800	.12	470
PW101K-8I	M83446/15-13	.10	30	25	750	.24	460
PW121K-8I	M83446/15-14	.12	32	25	700	.26	455
PW151K-8I	M83446/15-15	.15	40	25	650	.29	450
PW181K-8I	M83446/15-16	.18	30	25	600	.30	430
PW221K-8I	M83446/15-17	.22	42	25	570	.45	350
PW271K-8I	M83446/15-18	.27	40	25	500	.53	310
PW331K-8I	M83446/15-19	.33	36	25	400	.72	280
PW391K-8I	M83446/15-20	.39	35	25	380	.80	250
PW471K-8I	M83446/15-21	.47	38	25	350	1.2	230
PW561K-8I	M83446/15-22	.56	40	25	325	1.3	220
PW681K-8I	M83446/15-23	.68	40	25	300	1.4	210
PW821K-8I	M83446/15-24	.82	40	25	250	1.5	200
PW102K-6I	M83446/15-25	1.0	37	7.9	220	1.6	200
PW122K-6I	M83446/15-26	1.2	35	7.9	175	1.7	200
PW152K-6I	M83446/15-27	1.5	31	7.9	135	2.5	190
PW182K-6I	M83446/15-28	1.8	30	7.9	120	3.0	185
PW222K-6I	M83446/15-29	2.2	40	7.9	95	3.3	180
PW272K-6I	M83446/15-30	2.7	32	7.9	85	3.7	175
PW332K-6I	M83446/15-31	3.3	32	7.9	70	4.0	170
PW392K-6I	M83446/15-32	3.9	32	7.9	60	4.2	165
PW472K-6I	M83446/15-33	4.7	32	7.9	50	4.2	165
PW562K-6I	M83446/15-34	5.6	35	7.9	40	4.2	165
PW682K-6I	M83446/15-35	6.8	43	7.9	30	4.2	165
PW822K-6I	M83446/15-36	8.2	40	7.9	22	4.3	120
PW103K-3F	M83446/15-37	10	40	2.5	20	4.7	105
PW123K-3F	M83446/15-38	12	35	2.5	15	5.0	91
PW153K-3F	M83446/15-39	15	35	2.5	13	5.0	87
PW183K-3F	M83446/15-40	18	35	2.5	12	5.0	81
PW223K-3F	M83446/15-41	22	35	2.5	10	5.0	77
PW273K-3F	M83446/15-42	27	38	2.5	9.0	5.0	73
PW333K-3F	M83446/15-43	33	35	2.5	9.0	5.7	69
PW393K-3F	M83446/15-44	39	35	2.5	6.5	6.5	65
PW473K-3F	M83446/15-45	47	35	2.5	6.2	6.0	63
PW563K-3F	M83446/15-46	58	35	2.5	6.0	6.3	60
PW683K-3F	M83446/15-47	68	30	2.5	5.8	6.7	57
PW823K-3F	M83446/15-48	82	35	2.5	5.2	7.5	55
PW104K-3F	M83446/15-49	100	33	.79	4.0	13	50
PW124K-3F	M83446/15-50	120	33	.79	4.0	14	40
PW154K-3F	M83446/15-51	150	35	.79	3.9	16	36
PW184K-3F	M83446/15-52	180	35	.79	3.5	18	33
PW224K-3F	M83446/15-53	220	35	.79	3.2	21	28
PW274K-3F	M83446/15-54	270	35	.79	3.1	23	25
PW334K-3F	M83446/15-55	330	35	.79	2.8	37	20
PW394K-3F	M83446/15-56	390	35	.79	2.5	39	17
PW474K-3F	M83446/15-57	470	35	.79	2.3	45	15
PW564K-3F	M83446/15-58	560	35	.79	2.2	47	13
PW684K-3F	M83446/15-59	680	35	.79	2.1	62	12
PW824K-3F	M83446/15-60	820	35	.79	2.1	78	11
PW105K-3F	M83446/15-61	1000	33	.25	1.1	96	10

FEATURES
- Minimum Height
- Gold Contacts
- Substrate Mountable
- QPL Listed

ABSOLUTE MAXIMUM RATINGS
- Operating temperature range: -55°C to +125°C.
- Storage temperature range: -55°C to +125°C.
- Temperature rise (at 90°C): 35°C.
- Maximum operating temperature: 125°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, (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.