

Tunables and Transformers

PV Series Data Sheet

Piconics PV Series has gold plated contact areas for bonding interconnecting leads. The bottom of the ceramic chip has a heavy gold plating for bonding the coil to a substrate. Please note that the PV series can be made with special substrate geometries for flip chip bonding. The core is slide tuned and may be fixed in place with epoxy without affecting the inductance. Several core materials with different properties are available. The parts are conservatively rated so that production quantities will not contain parts beyond the limit (max. or min.) values. The PV series is listed in the Qualified Product List (QPL) M83446 under the identifier M83446/17.

FEATURES:

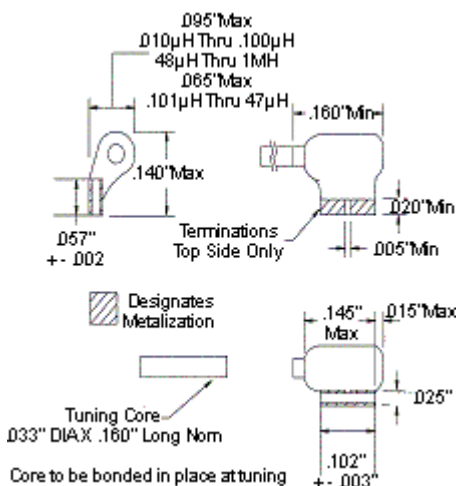
- Slide Tunable
- Low Volume
- High Packing Density

ABSOLUTE MAXIMUM RATINGS:

- Storage temperature: -55° C to +125° C.
- Temperature rise (at 90° C): 35° C
- Operating temperature: -55° C to 125° C.
- Dielectric withstanding voltage Method 301 of MIL-STD. 202(70,00 feet), Test Voltage 200 volts rm.
- Barometric Pressure: Method 105, test condition C, MIL-STD-202, (70,000 feet), test voltage 200 volts rm.
- Operating Temperature Range-55° C to +125° C.

PHYSICAL CHARACTERISTICS:

- Termination: Alumina substrate base; gold plated over nickel; welded internal connection.
- Case: Conformal Coated Epoxy
- Weight: 0.5 gram maximum.



Part number	Lmax uH	Lmin uH	QMin at Lmax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PV160-8I	.016	.012	50	200	1200	.04	250
PV250-8I	.025	.018	50	200	1050	.10	250
PV510-8I	.051	.036	40	100	740	.19	250
PV760-8I	.076	.054	40	100	600	.30	250
PV101-8I	.10	.071	30	25	530	.48	250
PV131-8I	.13	.093	30	25	525	.51	250
PV151-8I	.15	.11	30	25	500	.52	250
PV181-8I	.18	.13	30	25	470	.61	180
PV221-8I	.22	.16	30	25	400	.67	180
PV271-8I	.27	.19	30	25	350	.75	180
PV331-8I	.33	.24	30	25	320	.90	140
PV371-8I	.37	.27	30	25	275	.93	140
PV471-8I	.47	.34	30	25	255	1.1	100
PV561-8I	.56	.40	30	25	230	1.2	100
PV681-8I	.68	.49	30	25	190	1.3	100
PV761-8I	.76	.57	30	25	170	1.3	100
PV821-8I	.82	.59	30	25	150	1.4	100
PV951-8I	.95	.68	30	25	145	1.4	100
PV102-	1.0	.67	25	25	140	1.5	100

6I							
PV152-6I	1.5	1.0	25	7.9	110	1.5	100
PV222-6I	2.2	1.5	25	7.9	100	2.1	80
PV272-6I	2.7	1.8	25	7.9	89	2.4	75
PV332-6I	3.3	2.2	25	7.9	77	3.3	65
PV472-6I	4.7	3.1	25	7.9	49	3.3	60
PV582-6I	5.8	3.9	25	7.9	38	4.2	58
PV682-6I	6.8	4.5	25	7.9	36	4.5	55
PV822-6I	8.2	5.5	25	7.9	21	4.5	55
PV103-3F	10	6.0	25	7.9	20	4.5	55
PV133-3F	13	6.5	25	2.5	19	4.5	53
PV163-3F	16	8.0	25	2.5	16	5.1	50
PV203-3F	20	10	25	2.5	14	5.2	43
PV223-3F	22	11	25	2.5	12	6.0	43
PV303-3F	30	15	25	2.5	11	6.7	40
PV363-3F	36	18	25	2.5	10	7.5	40
PV473-3F	47	24	25	2.5	6.5	8.5	39
PV563-3F	56	28	25	2.5	6.3	10.5	35
PV683-3F	68	34	25	2.5	6.2	12	30
PV753-3F	75	38	25	2.5	5.9	13.5	30
PV863-3F	86	43	25	2.5	5.6	15	28
PV104-3F	100	50	20	2.5	5.3	18	27
PV124-3F	120	60	20	.79	4.4	21	25
PV154-1F	150	75	20	.79	4.0	27	22
PV474-1F	470	235	20	.79	2.0	45	16
PV684-1F	680	340	20	.79	2.1	52	15

PV105- 1F	1000	500	20	.79	1.1	112	11
--------------	------	-----	----	-----	-----	-----	----