

Tunables and Transformers

PGV Series Data Sheet

Piconics PGV series is a ceramic based, tunable, chip inductor in a rectangular molded case, which is dovetailed into the substrate to prevent separation. This leadless inductor is ideal for thick and thin film circuitry since, it can be mounted by reflow soldering. It uses a headless tuning screw for adjustment. The internal connections are welded to prevent loosening during soldering. The PGV series is listed in the qualified products list (QPL) M83446 under the identifier M83446/16. PGV series devices have numerous applications in high-density commercial and military communications and instrumentation circuitry.

FEATURES:

- Top Tuning
- Reflow Soldering
- High Packing Density
- High Reliability
- Headless Self-Locking Adjustment screw

ABSOLUTE MAXIMUM RATINGS:

- Operating temperature: -55° C to +125° C
- Storage temperature: -55° C to +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, test (70,000), test voltage 200 volts rms.

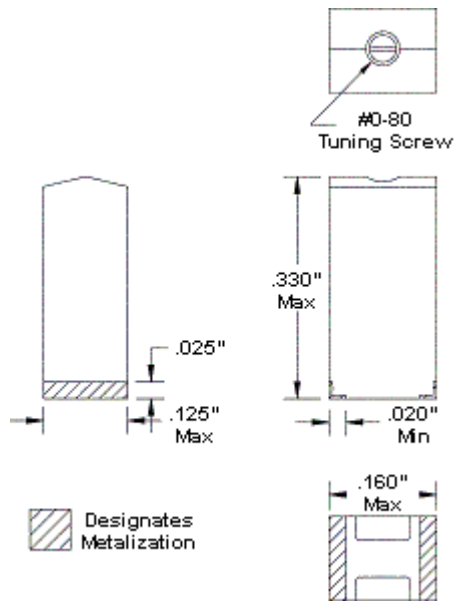
PHYSICAL CHARACTERISTICS:

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

NOTES:

- To tune coil, we recommend jeweler's screwdriver .040" blade.

Part number	Lmax uH	Lmin uH	QMin at Lmax	Test Freq Mhz	SRF Min MHZ	DCR Max Ohms	Idc Max mA
PGV160-81	.016	.012	50	200	250	.05	250
PGV250-81	.025	.020	50	200	1050	.10	250
PGV510-81	.051	.036	40	100	740	.19	250
PGV760-81	.076	.054	40	100	600	.30	250
PGV101-81	.10	.071	30	25	530	.48	250
PGV131-81	.13	.093	30	25	525	.51	200
PGV151-81	.15	.11	30	25	500	.52	200
PGV181-81	.18	.13	30	25	470	.60	180
PGV221-81	.22	.16	30	25	400	.67	180
PGV271-81	.27	.19	30	25	350	.75	180
PGV331-81	.33	.24	30	25	320	.90	140
PGV371-81	.37	.26	30	25	275	.93	140
PGV471-81	.47	.34	30	25	255	.97	100
PGV561-81	.56	.40	30	25	230	1.1	100
PGV681-81	.68	.49	30	25	190	1.2	100
PGV761-81	.76	.57	30	25	170	1.3	100
PGV821-81	.82	.59	30	25	150	1.3	100
PGV951-81	.95	.68	30	25	145	1.4	100
PGV102-61	1.0	.67	25	25	140	1.5	100
PGV152-61	1.5	1.0	25	7.9	110	1.5	100
PGV222-61	2.2	1.5	25	7.9	100	2.1	80
PGV272-61	2.7	1.8	25	7.9	89	2.4	75
PGV332-61	3.3	2.2	25	7.9	77	2.7	65
PGV472-61	4.7	3.1	25	7.9	49	3.3	60
PGV582-61	5.8	3.9	25	7.9	38	4.2	58
PGV682-61	6.8	4.5	25	7.9	36	4.5	55
PGV822-61	8.2	5.5	25	7.9	21	4.5	55
PGV103-3F	10	6.0	25	7.9	20	4.5	55
PGV133-3F	13	6.5	25	2.5	19	4.5	53
PGV163-3F	16	8.0	25	2.5	16	5.1	50
PGV203-3F	20	10	25	2.5	14	5.3	43
PGV223-3F	22	11	25	2.5	12	6.0	43
PGV303-3F	30	15	25	2.5	11	6.7	40
PGV363-3F	36	18	25	2.5	10	7.5	40



PGV473-3F	47	24	25	2.5	6.5	8.5	39
PGV563-3F	56	28	25	2.5	6.3	10	35
PGV683-3F	68	34	25	2.5	6.2	12	30
PGV753-3F	75	38	25	2.5	5.9	13	30
PGV863-3F	86	43	25	2.5	5.6	15	28
PGV104-3F	100	50	20	2.5	5.3	18	27
PGV124-3F	120	60	20	.79	4.4	21	25
PGV154-1F	150	75	20	.79	4.0	27	22
PGV474-1F	470	235	20	.79	2.1	45	16
PGV684-1F	680	340	20	.79	2.1	52	15
PGV105-1F	1000	500	18	.79	1.0	112	11