



G AND SG SERIES



Piconics G Series provides a low cost alternative to the screw adjustable inductor application. The core is slide tuned and may be fixed in place with epoxy without affecting the inductance value. The G series device has flexible ribbon leads and may be welded or soldered into circuits or onto thin film and thick film substrates. The body of the device should be epoxied to the substrate for support. Several core materials are available and each core material has different electrical properties. The part is conservatively rated so that production quantities will not contain parts beyond the limit (max. or min.) values. Natural (Copper wire) leads are also available in this series. Add prefix "S" to the G Series Part Number when ordering Natural Leads. (SG Series).

FEATURES

- Low Cost
- Slide Tunable
- Low Volume
- High Packing Density

ABSOLUTE MAXIMUM RATINGS

- Operating temperature range: -55°C to +125°C
- Storage temperature range: -55°C to +125°C
- Temperature raise (at 90°C): 35°C
- Maximum operating temperature: 125°C

PHYSICAL CHARACTERISTICS

- Termination: Flexible Ribbon Leads
- Case: Conformal Coated Epoxy

ELECTRICAL CHARACTERISTICS							
Piconics Part Number	Inductance		Qmin at Lmax	Test Freq MHz	SRF Min MHz	DCR Ohms Max	Idc Max ma
	Lmax uH	Lmin uH					
G250-8I-20	.025	.018	50	200	1,000	.07	250
G510-8I-20	.051	.036	40	100	700	.13	250
G760-8I-20	.076	.054	40	100	615	.20	250
G101-8I-20	.10	.071	30	25	500	.32	250
G151-8I-20	.15	.11	30	25	420	.35	200
G221-8I-20	.22	.16	30	25	400	.45	180
G271-8I-20	.27	.19	30	25	400	.50	180
G331-8I-20	.33	.24	30	25	320	.60	140
G471-8I-20	.47	.34	30	25	290	.65	100
G561-8I-20	.56	.40	30	25	250	.75	100
G681-8I-20	.68	.49	30	25	240	.85	140
G821-8I-20	.82	.59	30	25	150	.90	130
G102-6I-20	1.0	.67	25	7.9	140	.98	125
G152-6I-20	1.5	1.0	25	7.9	135	1.0	100
G222-6I-20	2.2	1.5	25	7.9	126	1.4	80
G272-6I-20	2.7	1.8	25	7.9	60	1.6	71
G332-6I-20	3.3	2.2	25	7.9	60	1.8	65
G472-6I-20	4.7	3.2	25	7.9	50	2.2	60
G582-6I-20	5.8	3.9	25	7.9	38	2.8	58
G682-6I-20	6.8	4.5	25	7.9	36	3.0	55
G822-6I-20	8.2	5.5	25	7.9	21	3.0	50
G103-3F-20	10	5.0	25	2.5	20	3.0	57
G133-3F-20	13	6.5	25	2.5	19	3.0	53
G163-3F-20	16	8	25	2.5	16	3.4	50
G203-3F-20	20	10	25	2.5	14	3.5	43
G223-3F-20	22	11	25	2.5	12	4.0	53
G303-3F-20	30	15	25	2.5	11	4.5	40
G363-3F-20	36	18	25	2.5	10	5.0	40
G473-3F-20	47	24	25	2.5	6.5	5.7	39
G563-3F-20	56	28	25	2.5	6.3	7.0	35
G683-3F-20	68	34	25	2.5	6.2	8.0	30
G753-3F-20	75	38	25	2.5	5.9	9.0	30
G863-3F-20	86	43	25	2.5	5.6	10.0	28
G104-3F-20	100	50	20	.79	5.3	12.0	27
G124-3F-20	120	60	20	.79	4.4	14.0	25
G474-1F-20	470	235	20	.79	2.1	30.0	16
G684-1F-20	680	340	20	.79	2.1	35.0	15
G105-1F-20	1000	500	18	.25	1.1	75.0	11

