

SMT POWER INDUCTORS

Unshielded Drum Core - PG0063 Series



- Small footprint and low profile
(6.2 mm x 6.2 mm x 2.5 mm MAX)
- Ideal for handheld devices and disk drive applications
- Reliable, cost effective design

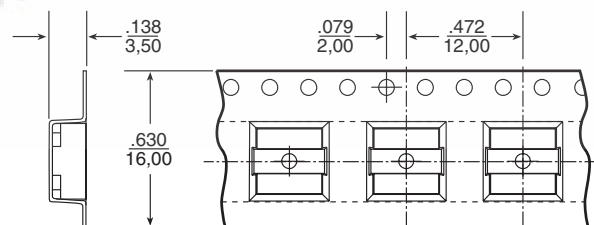
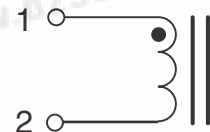
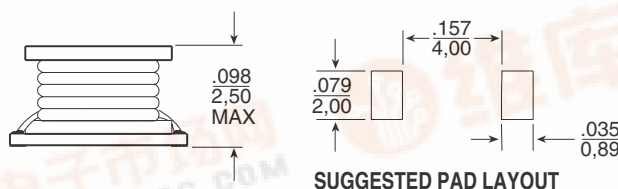
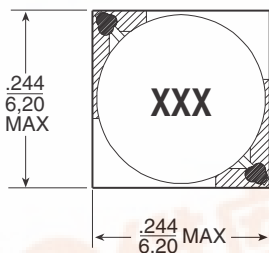
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

Part Number	Inductance @ I _{rated} ¹ (μH TYP)	I _{rated} ² (A)	DCR (mΩ)		Inductance @ 0A _{dc} (μH ±20%)	Saturation ³ Current I _{sat} (A)	Heating ⁴ Current I _{dc} (A)
			TYP	MAX			
PG0063.102T	0.9	3.5	15	22	1.0	3.5	4.5
PG0063.152T	1.3	3.0	25	30	1.5	3.0	3.8
PG0063.222T	1.9	2.5	33	40	2.2	2.5	3.3
PG0063.332T	2.9	2.0	55	65	3.3	2.0	2.9
PG0063.472T	4.2	1.8	76	90	4.7	1.8	2.7
PG0063.682T	6.1	1.5	91	105	6.8	1.5	2.2
PG0063.103T	9.0	1.2	128	150	10	1.2	1.9
PG0063.153T	13	1.0	181	210	15	1.0	1.6
PG0063.223T	19	0.8	250	290	22	0.8	1.3
PG0063.333T	29	0.65	342	400	33	0.65	1.2
PG0063.473T	42	0.55	492	565	47	0.55	0.96
PG0063.683T	61	0.50	728	800	68	0.50	0.76
PG0063.104T	90	0.40	1047	1205	100	0.40	0.62
PG0063.154T	130	0.30	1590	2020	150	0.30	0.50
PG0063.224T	190	0.26	2019	2220	220	0.26	0.42
PG0063.334T	290	0.20	3144	3305	330	0.20	0.32
PG0063.474T	420	0.16	4800	5040	470	0.16	0.28
PG0063.684T	610	0.14	7027	7380	680	0.14	0.22
PG0063.105T	900	0.12	11010	11340	1000	0.12	0.18

NOTE: Testing done @ 100 kHz, 100 mVac

Mechanical

Schematic



Weight 0.1 grams
Tape & Reel 1500/reel
Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0,25

TAPE & REEL LAYOUT

SMT POWER INDUCTORS

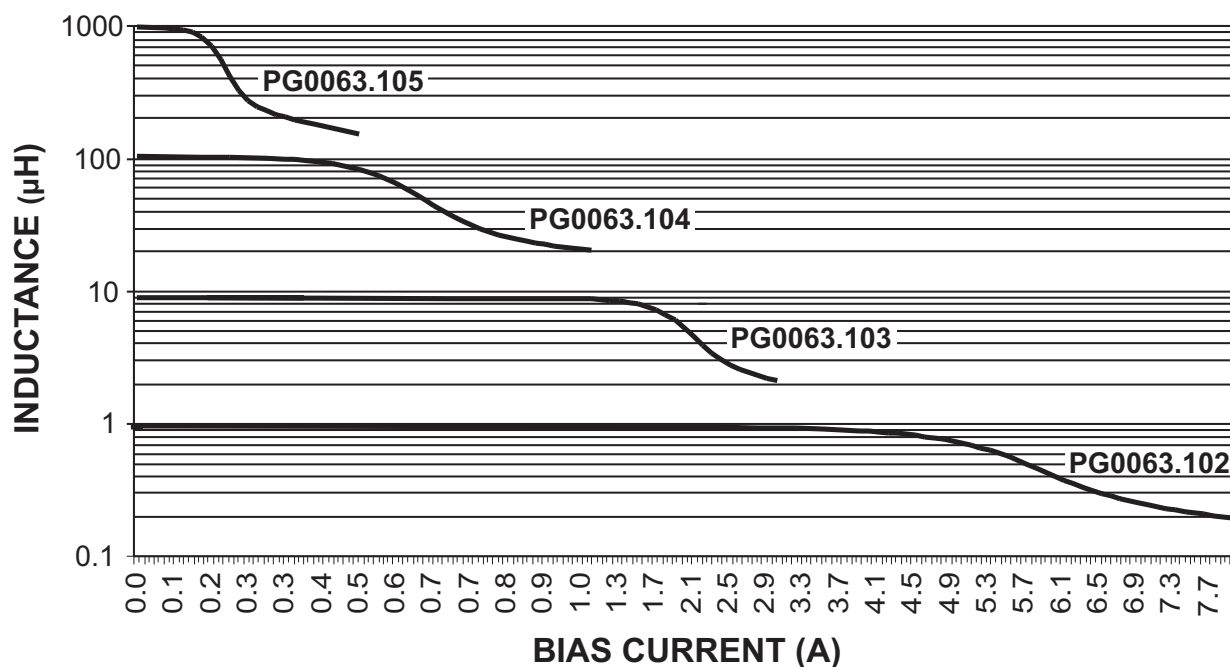
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Notes from Tables

1. Inductance at I_{rated} is a typical inductance value for the component taken at rated current.
2. The rated current listed is the lower of the saturation current @ 25°C or the heating current.
3. The saturation current, I_{sat} , is the current at which the component inductance drops by 10% (typical) at an ambient temperature of 25°C. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
4. The heating current, I_{dc} , is the DC current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.

PG0063 TYPICAL INDUCTANCE VS. DC BIAS



For More Information :

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