SMT POWER INDUCTORS
Unshielded Drum Core - PG0063 Series

Pulse
A TECHNITROL COMPANY

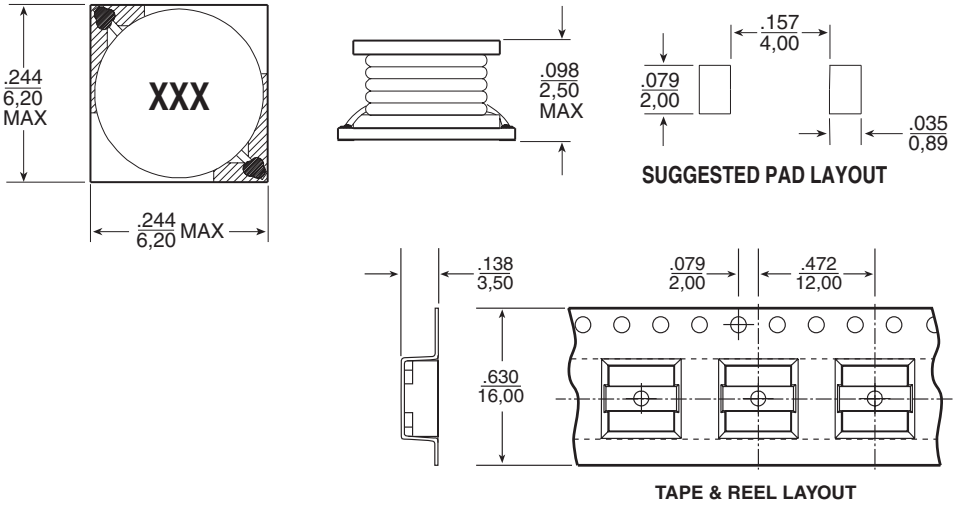
- Small footprint and low profile (6.2 mm x 6.2 mm x 2.5 mm MAX)
- Ideal for handheld devices and disk drive applications
- Reliable, cost effective design

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

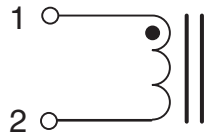
Part Number	Inductance @Irated[1] (µH TYP)	Irated[2] (A)	DCR (mΩ)		Inductance @0Adc (µH ±20%)	Saturation[3] Current Isat (A)	Heating[4] Current Idc (A)
			TYP	MAX			
PG0063.102T	0.9	3.5	15	22	1.0	3.5	4.5
PG0063.152T	1.3	3.0	25	30	1.5	3.0	3.8
PG0063.222T	1.9	2.5	33	40	2.2	2.5	3.3
PG0063.332T	2.9	2.0	55	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

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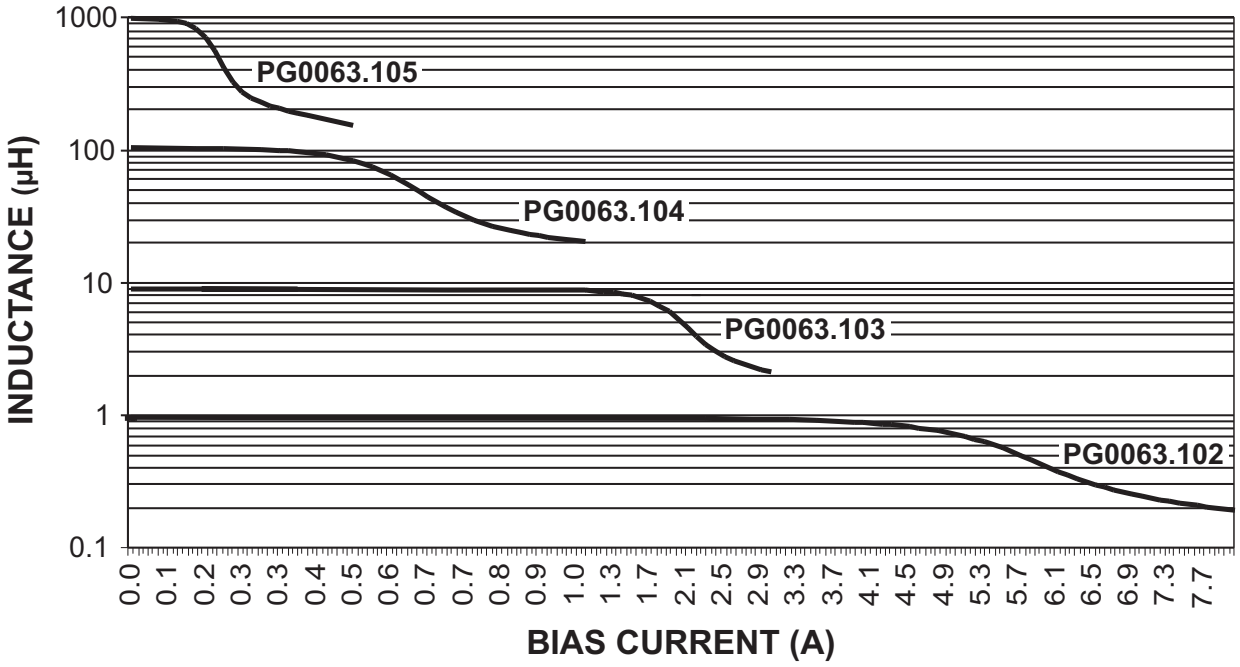
Notes from Tables

1. Inductance at Irated 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, Isat, 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, Idc, 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 :

UNITED STATES (Worldwide)
12220 World Trade Drive
San Diego, CA 92128
U.S.A.
http://www.pulseeng.com
TEL: 858 674 8100
FAX: 858 674 8262

UNITED KINGDOM (Northern Europe)
1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

FRANCE (Southern Europe)
Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

SINGAPORE (Southern Asia)
150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 287 8998
FAX: 65 280 0080

TAIWAN, R.O.C. (Northern Asia)
3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan, R.O.C.
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

HONG KONG (China/Hong Kong)
19/F, China United Plaza
1008 Tai Nan West Street
Cheung Sha Wan, Kowloon
Hong Kong, China
TEL: 852 2788 6588
FAX: 852 2776 1055

DISTRIBUTOR