General Components Industry Corporation

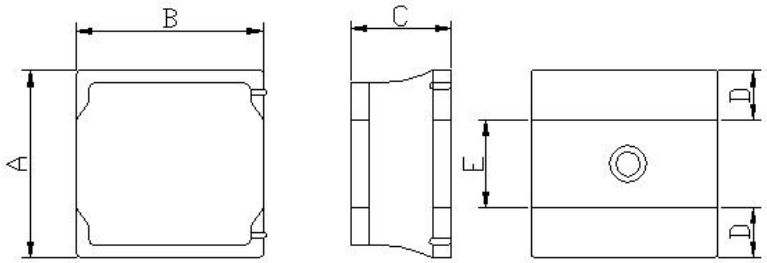
Sealed Power Inductor

GFP3010EF-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125℃ (Including self - temperature rise).

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
GFP3010EF	3.0±0.2	3.0±0.2	1.0max.	1.0 ref.	1.0 ref.

Units: mm

3. Part Numbering

GFP	3010	EF	-	1R0	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead Free
D: Inductance 1R0=1.0uH
E: Inductance Tolerance M=±20%

4. Specification

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) max.	I sat (A)	I rms (A)
GFP3010EF-R47M	0.47	±20%	1V/1M	0.038	0.045	5.40	4.10
GFP3010EF-1R0M	1.0	±20%	1V/1M	0.078	0.090	3.80	2.40
GFP3010EF-1R5M	1.5	±20%	1V/1M	0.095	0.110	3.10	2.10
GFP3010EF-2R2M	2.2	±20%	1V/1M	0.130	0.144	2.30	2.00
GFP3010EF -3R3M	3.3	±20%	1V/1M	0.200	0.230	2.10	1.30
GFP3010EF-4R7M	4.7	±20%	1V/1M	0.300	0.330	1.70	1.20
GFP3010EF-6R8M	6.8	±20%	1V/1M	0.435	0.470	1.30	1.10
GFP3010EF-100M	10	±20%	1V/1M	0.540	0.575	1.10	0.90

Note:

Isat：Saturation Current (Isat) will cause L0 to drop approximately 30%.

Irms：Heat Rated Current (Irms) will cause the coil temperature rise approximately △T of 40℃.

Rated DC Current： The less value whith is Irms or Isat.

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5.Typical Performance Curves