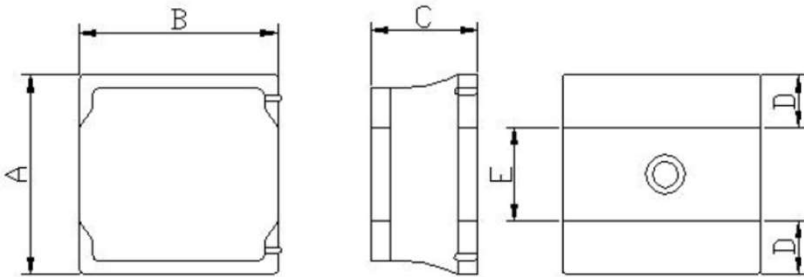


## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC3012TF	3.0±0.2	3.0±0.2	1.2 max.	1.0 ref.	1.0 ref.

Units: mm

## 3. Part Numbering

HPC
3012
TF
-
4R7
M

A: Series

B: Dimension

C: Lead Free

D: Inductance

4R7=4.70uH

E: Inductance Tolerance

M=±20%

## 4. Specification

PARTS No	Inductance ( $\mu$ H) $\pm 20\%$	Isat (Typ) A	Irms (Typ) A	DCR (Typ) m $\Omega$
HPC3012TF-1R0Y	1.0 $\pm 30\%$	2.5	2.2	42
HPC3012TF-1R5Y	1.5 $\pm 30\%$	2.0	2.0	56
HPC3012TF-2R2M	2.2	1.8	1.9	80
HPC3012TF-3R3M	3.3	1.5	1.7	100
HPC3012TF-4R7M	4.7	1.3	1.5	130
HPC3012TF-6R8M	6.8	1.2	1.2	180
HPC3012TF-100M	10	0.9	1.0	245
HPC3012TF-150M	15	0.8	0.9	386
HPC3012TF-220M	22	0.6	0.7	580

Note:

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

Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately  $\Delta T$  of 40°C