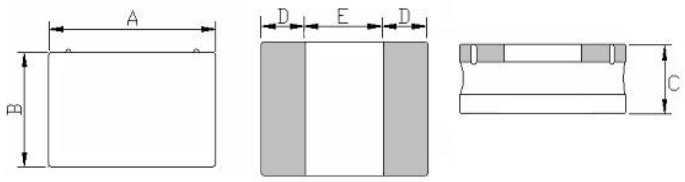
Power Inductor

DFP201610TF-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)
DFP201610TF	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0Max	0.60 ref.	0.80 ref.

3. Part Numbering

DFP	201610	TF	-	R24	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead Free Material
D: Inductance R24=0.24uH
E: Inductance Tolerance M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A)	I rms (A)
DFP201610TF-R10M	0.10	±20%	0.1V/1M	0.021	0.025	8.00	5.00
DFP201610TF-R24M	0.24	±20%	0.1V/1M	0.023	0.028	5.10	4.40
DFP201610TF-R33M	0.33	±20%	0.1V/1M	0.031	0.040	3.90	3.50
DFP201610TF-R47M	0.47	±20%	0.1V/1M	0.035	0.042	3.85	3.30
DFP201610TF-R68M	0.68	±20%	0.1V/1M	0.046	0.055	3.25	2.80
DFP201610TF-1R0M	1.00	±20%	0.1V/1M	0.059	0.072	2.90	2.40
DFP201610TF-1R5M	1.50	±20%	0.1V/1M	0.098	0.118	2.30	2.10
DFP201610TF-2R2M	2.20	±20%	0.1V/1M	0.141	0.170	2.10	1.70

Note:

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

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

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

5.Typical Performance Curves