

Power Inductor

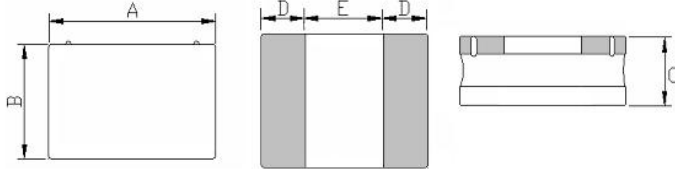
DFP201610TV-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply with AEC-Q200
4. Operating temperature:-55~+125°C(Including self - temperature rise)



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201610TV	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** **T** **V** - **R24** - **M**

A B C D E F

- A: Series
- B: Dimension
- C: Lead Free
- D: Category Code V=Vehicle
- E: Inductance R24=0.24uH
- F: 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) typ.	I sat (A) Max.	I rms (A) typ	I rms (A) Max.
DFP201610TV-R24M	0.24	±20%	0.1V/1M	0.023	0.028	5.10	4.50	4.40	3.90
DFP201610TV-R33M	0.33	±20%	0.1V/1M	0.031	0.040	3.90	3.50	3.50	3.10
DFP201610TV-R47M	0.47	±20%	0.1V/1M	0.035	0.042	3.85	3.40	3.30	3.00
DFP201610TV-R68M	0.68	±20%	0.1V/1M	0.046	0.055	3.25	2.80	2.80	2.50
DFP201610TV-1R0M	1.00	±20%	0.1V/1M	0.059	0.072	2.90	2.50	2.40	2.20
DFP201610TV-1R5M	1.50	±20%	0.1V/1M	0.098	0.118	2.30	1.80	2.10	1.80
DFP201610TV-2R2M	2.20	±20%	0.1V/1M	0.141	0.170	2.10	1.70	1.70	1.55

Note:

- Isat: Saturation Current (Isat) will cause L0 to drop approximately 30%
- Irms: Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ40°C

9. Typical Performance Curves

