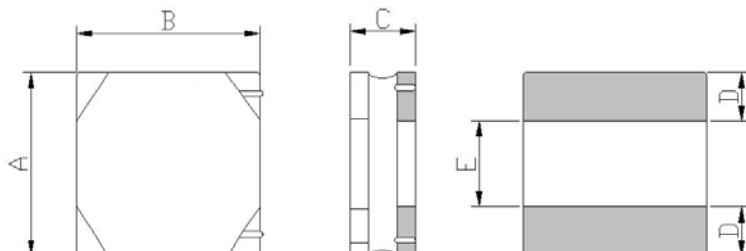


## 1. Features

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



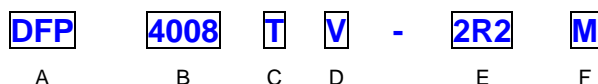
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP4008TV	4.0±0.2	4.0±0.2	0.7±0.1	1.2 ref.	1.6 ref.

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Lead Free  
 D: Category Code                      V=Vehicle  
 E: Inductance                            2R2=2.2uH  
 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
DFP4008TV-R47M	0.47	±20%	1V100K	0.080	0.096	5.00	4.50	3.00	2.50
DFP4008TV-R68M	0.68	±20%	1V100K	0.084	0.100	3.50	3.00	2.60	2.20
DFP4008TV-1R0M	1.0	±20%	1V100K	0.110	0.130	3.20	2.80	2.30	2.00
DFP4008TV-1R5M	1.5	±20%	1V100K	0.140	0.168	2.80	2.50	2.00	1.80
DFP4008TV-2R2M	2.2	±20%	1V100K	0.230	0.276	2.50	2.20	1.60	1.40
DFP4008TV-3R3M	3.3	±20%	1V100K	0.300	0.360	2.00	1.70	1.50	1.30
DFP4008TV-4R7M	4.7	±20%	1V100K	0.420	0.500	1.80	1.60	1.20	1.10
DFP4008TV-6R8M	6.8	±20%	1V100K	0.580	0.690	1.70	1.50	1.10	1.00
DFP4008TV-100M	10	±20%	1V100K	0.800	0.960	1.50	1.40	1.00	0.90

Note:

Isat : Based on inductance change ( $\Delta L/L0 : \leq 30\%$ ) @ ambient temp. 25°C

Irms : Based on temperature rise ( $\Delta T : 40^\circ\text{C}$ ) MAX

Measurement board data

Irms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50  $\mu\text{m}$

