

# Power Inductor

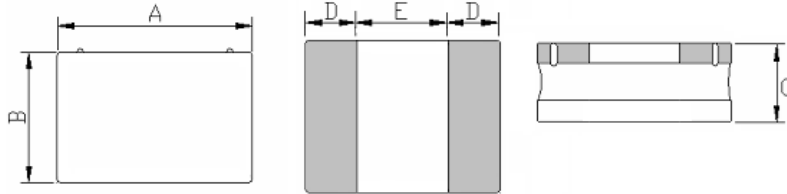
DFP201612NV-SERIES

## 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)



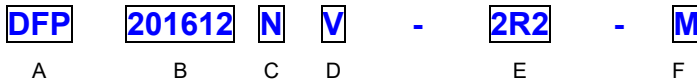
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
DFP201612NV	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.20Max.	0.60 ref.	0.80 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%

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.
DFP201612NV-R24M	0.24	±20%	0.1V/1M	0.025	0.033	5.40	4.80	4.00	3.50
DFP201612NV-R33M	0.33	±20%	0.1V/1M	0.027	0.034	4.70	3.90	3.90	3.20
DFP201612NV-R47M	0.47	±20%	0.1V/1M	0.035	0.046	3.90	3.50	3.30	2.90
DFP201612NV-R56M	0.56	±20%	0.1V/1M	0.053	0.064	3.50	3.00	3.00	2.60
DFP201612NV-R68M	0.68	±20%	0.1V/1M	0.055	0.066	3.30	2.80	3.00	2.60
DFP201612NV-1R0M	1.0	±20%	0.1V/1M	0.080	0.104	3.00	2.50	2.70	2.30
DFP201612NV-1R2M	1.2	±20%	0.1V/1M	0.088	0.106	3.00	2.50	2.70	2.30
DFP201612NV-1R5M	1.5	±20%	0.1V/1M	0.090	0.108	2.50	2.00	2.10	1.80
DFP201612NV-2R2M	2.2	±20%	0.1V/1M	0.155	0.186	2.00	1.60	1.50	1.30

Note:

- I<sub>sat</sub> : Saturation Current (I<sub>sat</sub>) will cause L<sub>0</sub> to drop approximately 30%
- I<sub>rms</sub> : Heat Rated Current (I<sub>rms</sub>) will cause the coil temperature rise approximately Δ40°C

