

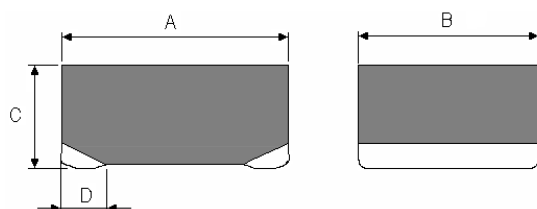
1. Features

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



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2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
252012	2.5±0.2	2.0±0.2	1.2 max.	0.5±0.3

3. Part Numbering

AWP **252012** **AF** - **R47** **M**

A: Series
 B: Dimension
 C: Material
 D: Inductance R47=0.47uH
 E: Inductance Tolerance M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			max.	typ.	max.	typ.	max.	typ.
AWP252012AF-R47M	0.47±20%	1V/1M	0.039	0.029	4.00	4.50	3.50	3.80
AWP252012AF-R68M	0.68±20%	1V/1M	0.056	0.046	3.10	3.50	3.00	3.30
AWP252012AF-1R0M	1.0±20%	1V/1M	0.065	0.054	2.70	3.00	2.70	2.90
AWP252012AF-2R2M	2.2±20%	1V/1M	0.125	0.104	2.20	2.50	2.00	2.20
AWP252012AF-3R3M	3.3±20%	1V/1M	0.167	0.139	1.70	1.90	1.70	1.90
AWP252012AF-4R7M	4.7±20%	1V/1M	0.260	0.198	1.40	1.60	1.40	1.60

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C.) Max

5. Packaging Quantity

Chip Size	252012
Chip / Reel	3000

6. Typical Performance Curves

