

Power Inductor

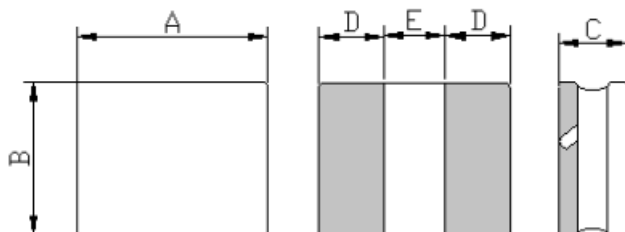
AHP322510FA-SERIES

1. Features

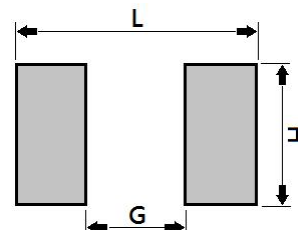
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimension



Recommended Land pattern

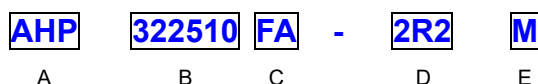


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP322510FA	3.2 ± 0.2	2.5 ± 0.2	1.0 Max	0.95 ref.	1.30 ref.

Units: mm

L(mm)	G(mm)	H(mm)
3.6	1.2	2.8

3. Part Numbering



A: Series
 B: Dimension
 C: Lead Free
 D: Inductance
 E: Inductance Tolerance

Material
 2R2=2.2uH
 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)
AHP322510FA-R24M	0.24	±20	1V/1M	0.025	0.030	11.0	6.10
AHP322510FA-R33M	0.33	±20	1V/1M	0.030	0.036	10.0	5.60
AHP322510FA-R47M	0.47	±20	1V/1M	0.035	0.042	8.50	4.80
AHP322510FA-R68M	0.68	±20	1V/1M	0.040	0.048	7.50	4.50
AHP322510FA-1R0M	1.0	±20	1V/1M	0.048	0.057	5.50	4.30
AHP322510FA-1R5M	1.5	±20	1V/1M	0.055	0.066	4.50	3.70
AHP322510FA-2R2M	2.2	±20	1V/1M	0.080	0.096	3.50	3.30
AHP322510FA-3R3M	3.3	±20	1V/1M	0.120	0.144	3.00	2.80
AHP322510FA-4R7M	4.7	±20	1V/1M	0.165	0.198	2.50	2.40
AHP322510FA-6R8M	6.8	±20	1V/1M	0.225	0.270	2.10	2.20
AHP322510FA-100M	10.0	±20	1V/1M	0.335	0.402	1.80	1.60

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 μm