

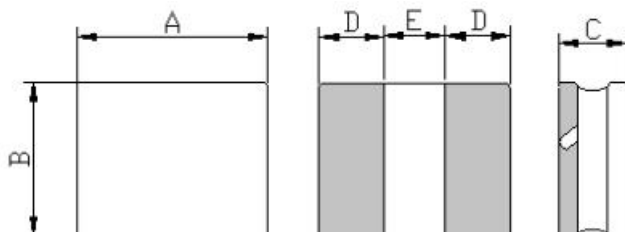
**Power Inductor** **AHP322508FA-SERIES**

**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).



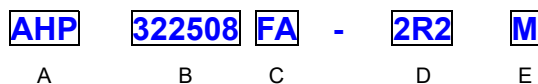
**2. Dimension**



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP322508FA	3.2 ± 0.2	2.5 ± 0.2	0.8 Max	0.95 ref.	1.30 ref.

Units: mm

**3. Part Numbering**



- A: Series
- B: Dimension
- C: Lead Free Material
- D: Inductance 2R2=2.2uH
- E: Inductance Tolerance M=±20%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) typ.	DCR ( $\Omega$ ) Max.	I sat (A)	I rms (A)
AHP322508FA-R24M	0.24	$\pm 20$	1V/1M	0.040	0.048	8.00	4.50
AHP322508FA-R33M	0.33	$\pm 20$	1V/1M	0.042	0.050	7.00	4.30
AHP322508FA-R47M	0.47	$\pm 20$	1V/1M	0.050	0.060	6.00	4.00
AHP322508FA-R68M	0.68	$\pm 20$	1V/1M	0.060	0.072	5.50	3.60
AHP322508FA-1R0M	1.0	$\pm 20$	1V/1M	0.070	0.084	5.00	3.30
AHP322508FA-1R5M	1.5	$\pm 20$	1V/1M	0.095	0.114	4.50	3.00
AHP322508FA-2R2M	2.2	$\pm 20$	1V/1M	0.120	0.144	4.00	2.70
AHP322508FA-3R3M	3.3	$\pm 20$	1V/1M	0.175	0.210	3.00	2.20
AHP322508FA-4R7M	4.7	$\pm 20$	1V/1M	0.220	0.264	2.50	2.00
AHP322508FA-6R8M	6.8	$\pm 20$	1V/1M	0.380	0.456	2.30	1.50
AHP322508FA-100M	10.0	$\pm 20$	1V/1M	0.520	0.624	1.80	1.30

**Note:**

Isat : Saturation Current (Isat) will cause LO to drop approximately 30%.

Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately  $\Delta T$  of 40°C.

Rated DC Current : The less value which is Irms or Isat.

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  $\mu$ m