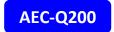
TAI-TECH

SMD Power Inductor

1. Features

- 1. Low loss with low DCR.
- 2. High performance realized by metal dust core.
- 3. Ultralow buzz noise, due to composite construction.
- 4. 100% Lead (Pb)-Free and RoHS compliant.
- 5. High reliability-complied with AEC-Q200.



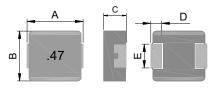


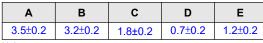


2. Applications

For automotive applications.

3. Dimensions





Unit:mm

4. Part Numbering



A: Series

B: Dimension BxC

C: Type H: Carbonyl Powder, V: Vehicle.

D: Inductance R47=0.47uH

E: Inductance Tolerance M=±20%, One-way Black marking.

Anti-static packaging

5. Specification

Part Number	Inductance (uH) @ 0 A DC	Irms (A)	Isat (A)	DCR (mΩ)	
		Тур	Тур	Тур	Max
FTMP0302HV-R10YG	0.10±30%	10.5	14.0	6.6	9.0
FTMP0302HV-R47MG	0.47±20%	7.0	9.0	19.7	23

Note:

- 1. Test frequency : Ls : 100KHz /1.0V.
- 2. All test data referenced to 25°C ambient.
- 3. Testing Instrument (or eq.): Agilent 4284A,E4991A,4339B,KEYSIGHT E4980A/AL,chroma3302,3250,16502.
- 4. Heat rated current (Irms): current that cause temperature to rise approximately ΔT of 40°C.
- 5. Saturation current (Isat): current that cause L0 to drop approximately 30%.
- 6. The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, PCB trace and thickness, airflow and other cooling conditions all affect the part temperature. Part temperature should be verified in the end application.
- 7. Irms Test: temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.
- 8. Rated DC current: the lower value of Irms and Isat.

Recommend PC Board Pattern



L	G	Н
4.1	1.9	1.45

- PCB layout is referred to IPC-7351B standard.
 The above PCB layout is for reference only.
- 3. Recommend solder paste thickness is 0.12mm and above.



TAI-TECH P

