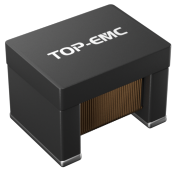
Winding Type Chip Inductor

TLPAI2012D2R2MT

TOP-EMC

Features

- Ferrite core wire wound construction
- High Reliability due to wire wound type construction
- Small footprint as well as low profile
- 100% Lead(Pb) & Halogen-Free and RoHS compliant
- High reliability -Reliability tests comply with AEC-Q200



Product Identification

TLPAI	2012	D	2R2	M	T
①	②	③	④	⑤	⑥

- ① Type : TLPAI
- ② External Dimensions (L×W) [mm]= 2.0*1.2
- ③ Feature Type : Differential
- ④ Nominal Inductance : 2R2=2.2μH
- ⑤ Inductance Tolerance : K=±10%
M=±20%
N=±30%
- ⑥ Packing T=Tape Carrier Package

Specifications

Part Number	Inductance @1MHz,1V	DC Resistance Max.	Saturation Current(Max.)	Heat Rating Current(Max.)	Self-Resonant Frequency(Min.)
Symbol	L	DCR	Isat	Irms	SRF
Units	μH	Ω	mA	mA	MHz
TLPAI2012D2R2MT	2.2± 20%	0.5	900	400	360

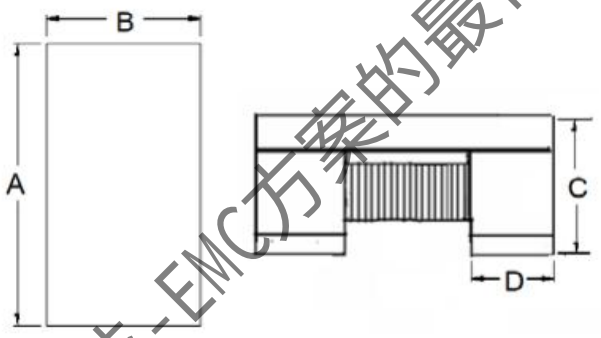
Note:

(1)Isat: Applied the current to coils, the inductance change shall be less than 30% of initial value.

(2)Irms: Temperature rise caused by selfgenerated heat shall be limited to 20°C max.

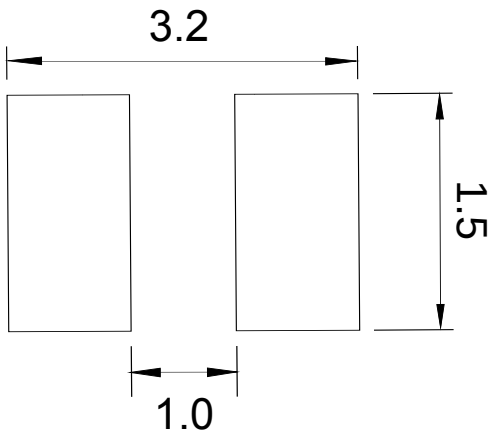
(3)Operating temperature : -40 to +125°C(Including self-temperature rise).

Shape And Dimensions: (Dimensions in mm)

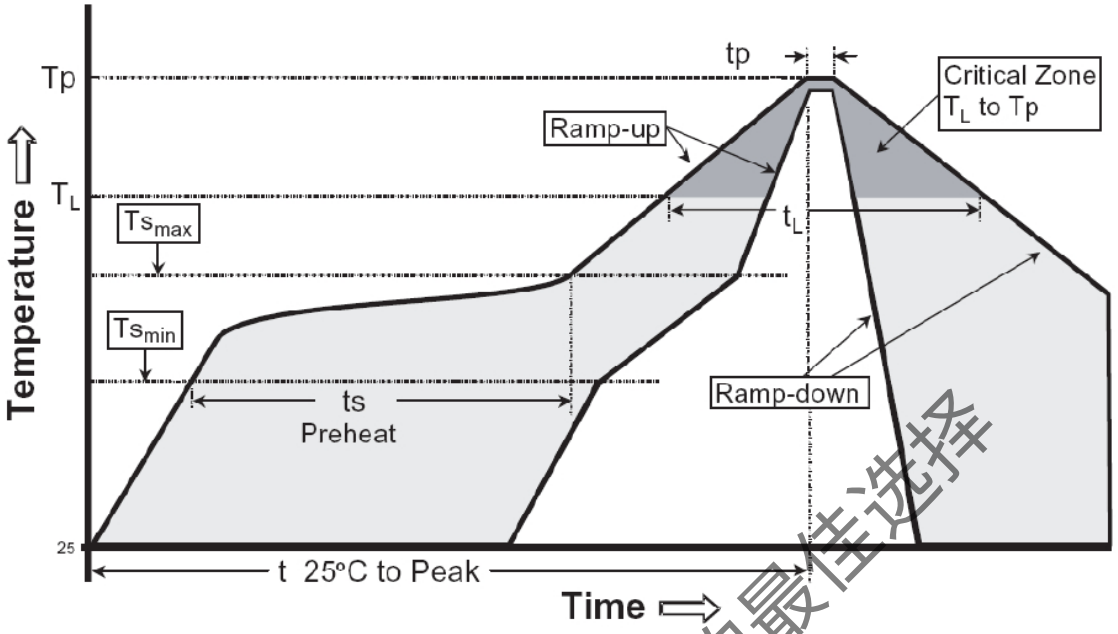


A	B	C	D
2.00±0.20	1.27±0.20	1.60±0.20	0.4 Typ

Suggested Land Pattern: (Dimensions in mm)



Recmmended Soldering Technologies



Profile Feature	Pb free Assembly
Average Ramp Rate (Ts max to Tp)	3 ℃/second max
Preheat - Temperature Min (Ts_{min} - Temperature Min (Ts_{max} - Time(ts_{min} to ts_{min})	 150℃ 200℃ 60-180 seconds
Time maintained above: - Temperature (TL) - Time (tL)	 217℃ 60-150 seconds
Peak/Classification Temperature (Tp) Peak/Classification Time (Tp)	260 ℃ 3-4 seconds
Time within 5 ℃ of actual Peak Temperature (T_p)	20-40 seconds
Ramp-Down Rate	6 ℃/second max.
Time 25℃ to Peak Temperature	8 minutes max

CONTACT INFORMATION

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