

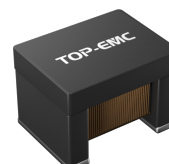
Winding Type Chip Inductor

TLPAI4532D100MT

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
①

4532
②

D
③

100
④

M
⑤

T
⑥

- ① Type : TLPAI
- ② External Dimensions (L×W×H) [mm]= 4.5*3.2*3.5
- ③ Feature Type: Differential
- ④ Nominal Inductance : 100=10μH
- ⑤ Inductance Tolerance : K=±10%
M=±20%
N=±30%
- ⑥ Packing T=Tape Carrier Package

Specifications

Part Number	Ls(uH) (@1 MHz)	DCR (Ω) Max.	SRF (MHz min.)	Rated current(mA)		
				Isat(mA)	Based on temperature rise	
					Ambient temperature 105°C	Ambient temperature 125°C
TLPAI4532D100MT	10 $\pm$ 20%	0.13	60	1000	1000	710

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

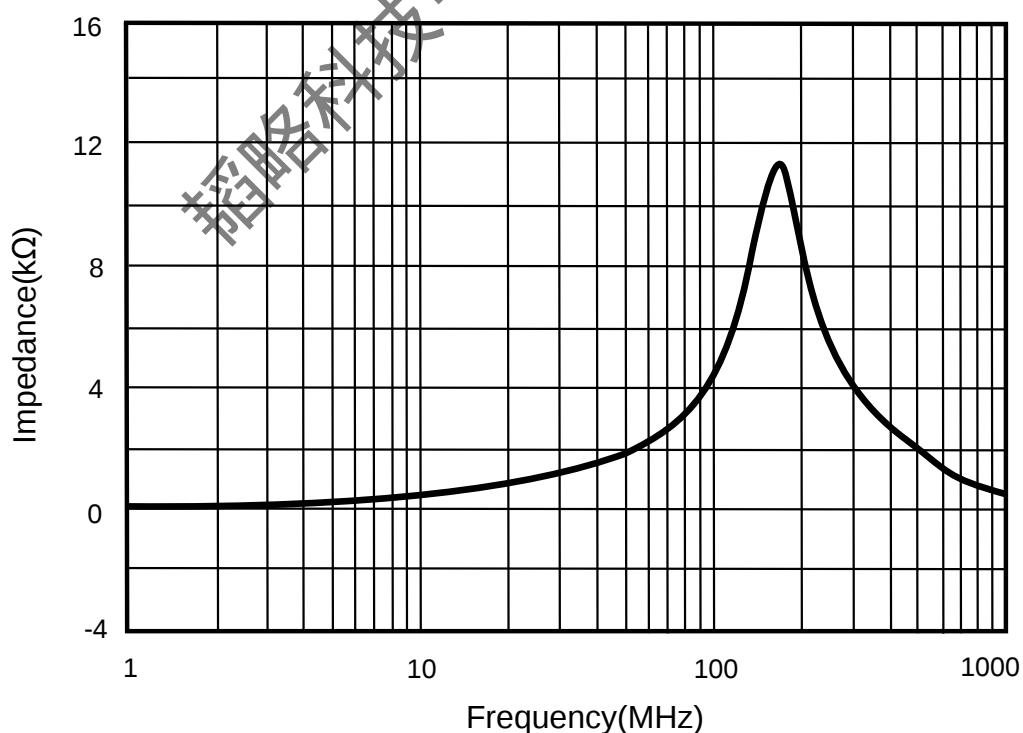
Operating temperature:-40~+125°C (Including self - temperature rise)

Ambient temperature :

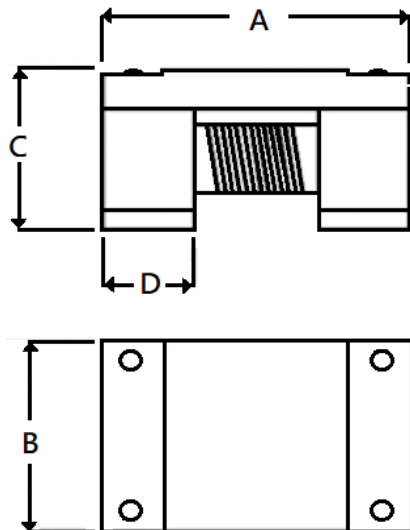
105°C: the part temperature (ambient temperature plus self-generation of heat) should be under 125°C.

125°C: the part temperature (ambient temperature plus self-generation of heat) should be under 130°C.

Typical Electrical Characteristics



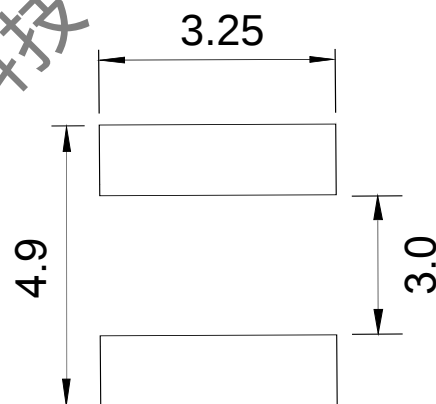
Shape And Dimensions : (Dimensions in mm)



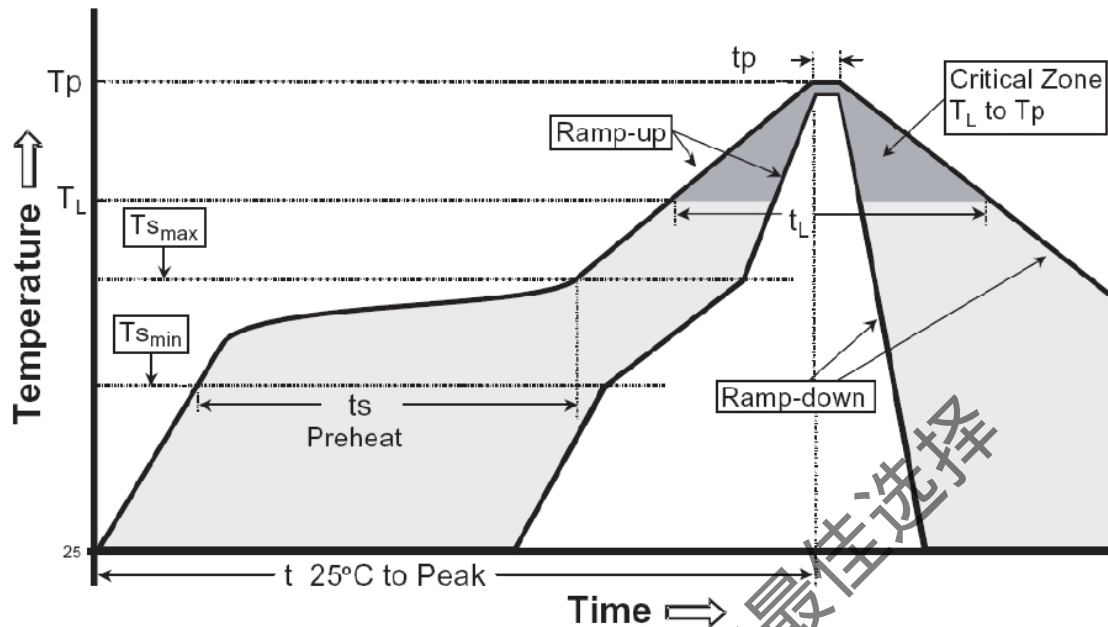
Size	TLPAI4532
A	4.50±0.20
B	3.20±0.20
C	3.50±0.20
D	0.83±0.10

Unit:mm

Suggested Land Pattern: (Dimensions in mm)



Recommended Soldering Technologies



Profile Feature	Pb free Assembly
Average Ramp Rate (T_s max to T_p)	3 °C/second max
Preheat - Temperature Min (T_{smin}) - Temperature Min (T_{smax}) - Time(t_{smin} to t_{smin})	150°C 200°C 60-180 seconds
Time maintained above: - Temperature (T_L) - Time (t_L)	217°C 60-150 seconds
Peak/Classification Temperature (T_p)	260 °C
Peak/Classification Time (T_p)	3-4 seconds
Time within 5 °C of actual Peak Temperature (T_p)	20-40 seconds
Ramp-Down Rate	6 °C/second max.
Time 25°C to Peak Temperature	8 minutes max

CONTACT INFORMATION

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