

Features & Application

2020/1/1

- IEEE 802.3 Ethernet compatible
  - Discrete transformers and common mode chokes for flexible PCB layout
  - Pair with common mode choke CMC2012F801-0.28AT for EMI red
  - Expanded temperature range: -40 to +85 °C
  - Environmental RoHS compliant, halogen
  - Low profile 4532 footprint: 4.60× 3.40 × 2.90 mm
- Core material Ferrite



Terminations RoHS compliant matte tin over nickel over silver palladium-glass frit.

Ambient temperature -40°C to +85°C with I<sub>rms</sub> current.

Maximum Part Temperature +125°C

Storage temperature Component: -40°C to +85°C. Tape and reel packaging: -40°C to +80°C

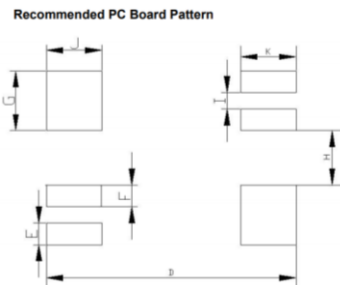
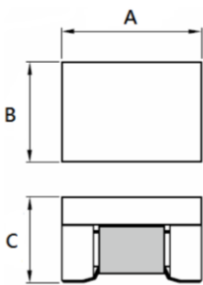
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /85% relative humidity)

★ When ordering, please check part number

Part number	Inductance(uH) @100KHz,0.1V (min)	Insertion Loss 1,2-5,4 (dB) max.	capacitance (100KHz) (pF)max	Turns Ratio	POE+
LTF4532-6P-121T10G	120	1-150MHz 150-500MHz 0.5 1.0	35	1:1	N/A
LTF4532-6P-121T10G50W	120	1-150MHz 150-500MHz 0.5 1.0	35	1:1	50W
LTF4532-6P-181T05G	180	1-100MHz 100-200MHz 0.9	35	1:1	N/A
LTF4532-6P-181T05G50W	180	1-100MHz 100-200MHz 0.9	35	1:1	50W
LTF4532-6P-151T01G	150	0.1-100MHz 2.5	25	1:1	N/A
LTF4532-6P-	150	0.1-100MHz 2.5	25	1:1	50W
LTF4532-6P-171T01G	170	0.1-100MHz 2.5	35	1:1	N/A
LTF4532-6P-	170	0.1-100MHz 2.5	35	1:1	50W
LTF4532-6P-201T01G	200	0.1-100MHz 1.5	35	1:1	N/A
LTF4532-6P-351T01G	350	0.1-100MHz 1.5	25	1:1	N/A

HI-POT 1.5KVAC,60sec



Dimensions	
A	4.60±0.2
B	3.25±0.2
C	2.90 max
D	5.0 typ
E	0.45 typ
F	0.35 typ
G	0.60 typ
H	1.60 typ
I	0.50 typ
J	1.00 typ
K	0.80 typ
unit : mm	

Insertion Return Loss	LCR Angilent E5071C/E5071B
Inductance/Cp	Angilent E4991A
Current per winding that causes a 20°C rise from 25°C ambient	
Electrical specifications at 25°C	

Weight 155 – 175 mg.

Packaging 500/7 " reel; Plastic tape: 12 mm wide.

Packaging will different,acording the various chip size.□

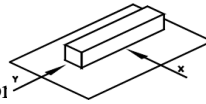
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**GENERAL CHARACTERISTICS**

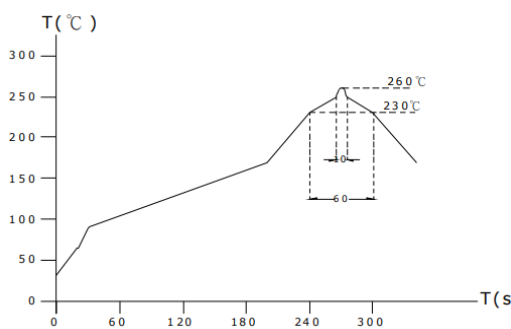
1. Operating temperature range: -40 TO + 125°C(Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Ywithstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 0.8kg Min –4532



4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and coil
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core
6. Temperature characteristics: Inductance coefficient (0~2,000)x10-6/ ( °C -25~+80 ). °C , inductance deviation within±5.0%, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2 and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within ±5%, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within ±5%, after being dropped once with 981m/s2 (100G) shock attitude upon a rubber block method shock testing machine, in three different
10. Resistance to Soldering Heat: 260 , 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: 10 ~ 35 (Generally: 21 ~ 31 ) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range:-35 ~ 85 , Humidity Range: 50% ~ 95% RH
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

**Lead-free heat en duran ce test**



**Lead-free the recommended reflow condition**

