Multi-layer Power Inductor : MIPSCZ1005D series (Very Small Type)

MIPSCZ1005D series

(1.0 x 0.5 x 0.75mm)

Features

- 1.0x0.5 mm and 0.75mm in height (very compact size): CAE and fine printing technology made this compact size possible
- Stable minimum DC resistance in the class
- High speed mounting: Using SMT mounter makes less than a second mounting possible
- Excellent mounting strength by SMD chip making
- Reduced noise over 2/3 of coil inductor by optimal design of CAD
- Completely lead-free product and support lead-free solder

Applications

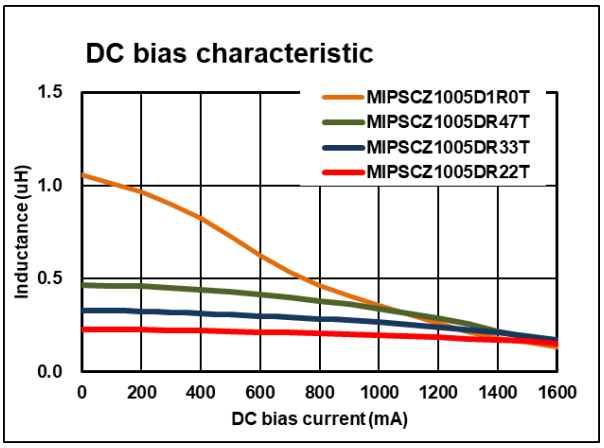
- DC-DC converters and power modules used for the following equipments.Compact electrical instruments such as cellular phones, Smart devices and WiFi / Bluetooth module.

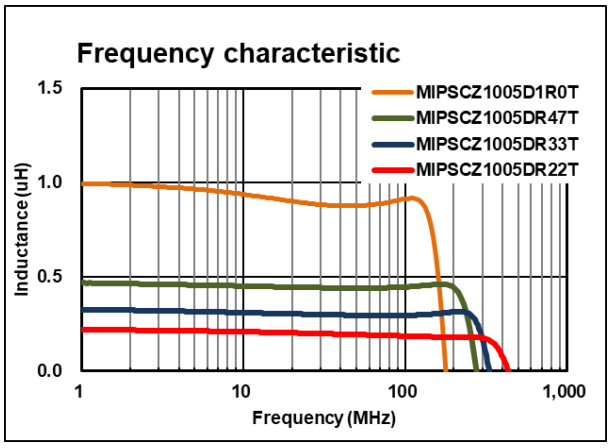
Specifications

Product name	MIPSCZ1005D			
	1R0T	R47T	R33T	R22T
Inductance(μH) at 1MHz	1.0±20%	0.47±20%	0.33±20%	0.22±20%
DC resistance(ohms)	0.45±30%	0.26±30%	0.25±30%	0.22±30%
Rated current(A)_typ.*1	0.5	0.65	0.7	0.85
Rated current(A)_typ.*2	0.5	0.9	1.2	1.5
Self-Resonance Frequency(MHz)_typ.	170	290	310	400

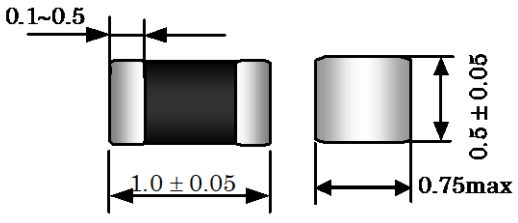
Rated current_*1 : In case temperature rise to 40°C due to self-heating. Operating temperature range: -40~85°C

Rated current_*2 : In case of L=-30% down from initial L value.

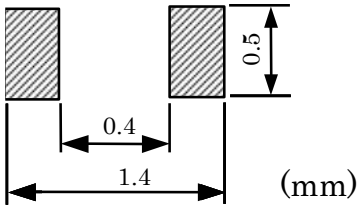




Shapes and Dimensions



Recommended land pattern



Standard package: Card board carrier tape (reel), Quantity: 8000pcs/1reel

■ The description in this catalogue is subject to change without notice. As of Apr, 2022