

RoHS **Compliant**



Features

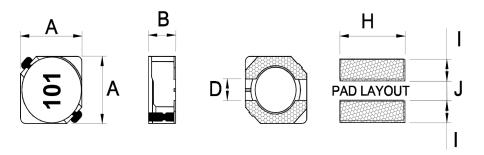
- Directly connected electrode on ferrite core
- Available in magnetically shielded
- Low DC resistance
- Suitable for large current
- Available on tape and reel for auto surface mounting

Applications

- Power Supply For VTRs
- OA Equipment
- Notebook PCs
- Portable Communication Equipment
- DC/DC Converters, etc.

Characteristics

- Rated DC Current: The current when the inductance becomes 35% lower than its initial value or the current when the temperature of coil increases to Δ40°C. The smaller one is defined as Rated DC
- Current. (Ta=25°C)
- Operating temperature range: -40°C to 125°C



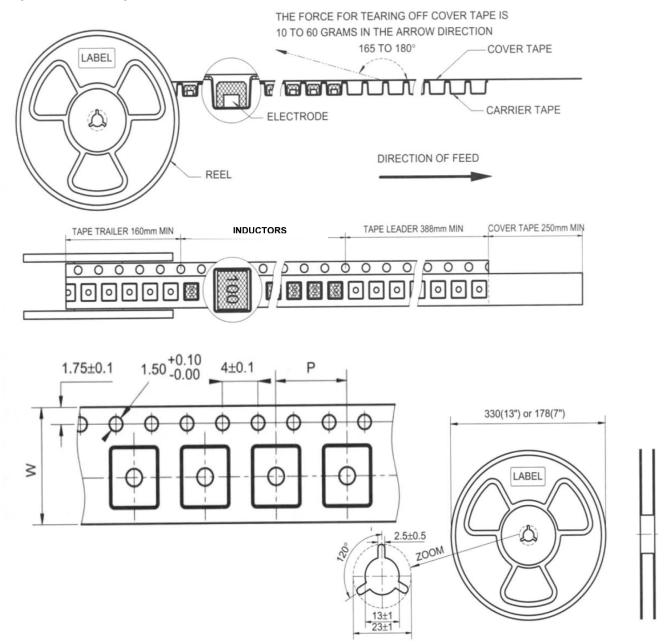
Unit: mm **Dimensions**

Code	Α	B max.	D	н	I	J
28	4.7±0.3	3	1.5	5.3	1.9	1.5
38	6.7±0.3	4	2	7.3	2.65	2

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Tape and Reel specifications





Unit: mm

Code	Таре	Parts Per Reel	
	W	Р	13"
28	12	8	2000
38	16	12	1000

SMT Power Inductor Environmental Specifications

General

Items	Specifications		
Shelf Storage conditions	Temperature range: 15°C to 28°C; Humidity: <80% relative humidity. Recommended product should be used within one year from the time of delivery.		

Environmental test

Test Items	Specifications	Test Conditions / Test Methods	
High temperature Storage test		Temperature 85±2°C, Time: 48±2 hours, Tested after 1 hour at room temperature.	
Low temperature Storage test	No case deformation or change in appearance. ΔL/L≤10%	Temperature -25±2°C, Time: 48±2 hours, Tested after 1 hour at room temperature.	
Humidity test		Temperature 40±2°C, 90% to 95% relative humidity Time: 96±2 hours Tested after 1 hour at room temperature.	
Thermal shock test		First -25°C 30 minutes then 25°C 10 minutes last 85°C 30 minutes, as 1 cycle. Go through 5 cycles. Tested after 1 hour at room temperature.	

Mechanical test

Test Items	Specifications	Test Conditions / Test Methods		
Solderability test	Terminal area must have 90% minimum solder coverage.	Dip pads in flux then dip in solder pot (SnCuNi) at 245±5°C for 3 seconds.		
Resistance to Soldering Heat	No case deformation or change in appearance.	Flux should cover the whole of the sample before heating, then be preheated for about 2 minutes over temperature of 130°C to 150°C. Immersing to 260±5°C for 10 seconds.		
Vibration test	No case deformation or change in	Apply frequency 10Hz to 55Hz. 1.5mm amplitude in each of perpendicular direction for 2 hours.		
Shock resistance	appearance. ΔL/L≤10%	Drop down with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, for 1 time. In each of three orientations.		

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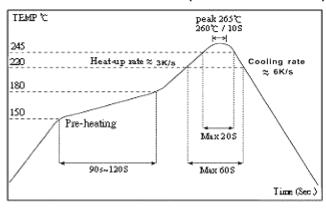




Electrical Characteristics

Part No	Code	L (μΗ)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
MP002873	28	3.3	30%		0.049	1.57
MP002874		10		100kHz, 0.1V	0.128	1
MP002875		18			0.166	0.72
MP002876	38	10	20%	10kHz, 0.1V	0.038	2
MP002877		82			0.324	0.7
MP002878		100			0.368	0.65

The condition of reflow (recommendation)



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