# RoHS Compliant



#### Features

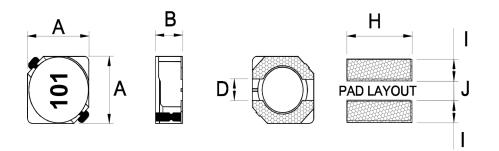
- · Directly connected electrode on ferrite core
- Available in magnetically shielded
- Low DC resistance
- Suitable for large current
- · Available on tape and reel for auto surface mounting

# 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



#### **Dimensions**

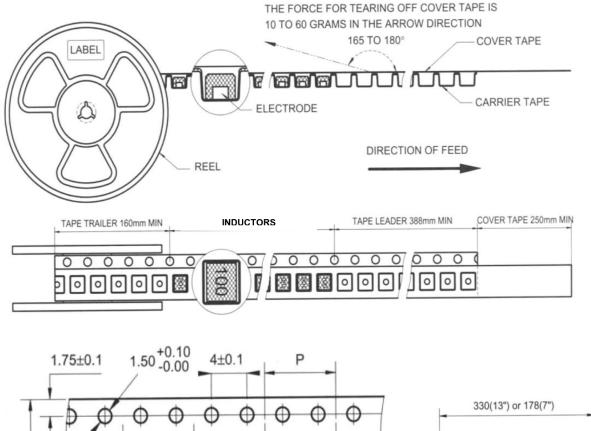
Unit: mm

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**



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# multicomp PRO

Unit: mm

Code	Таре	Parts Per Reel	
Code	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	Temperature -25±2°C, Time: 48±2 hours, Tested after 1 hour at room temperature.	
Humidity test	appearance. ΔL/L≤10%	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 heating, then be preheated for about 2 min over temperature of 130°C to 150°C. Imme 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/s <sup>2</sup> (100G) shock attitude upon rubber block method shock testing machine, for 1 time. In each of three orientations.		

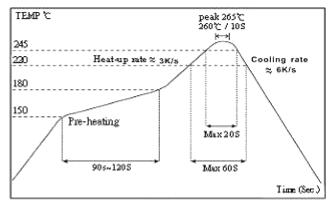
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# **Electrical Characteristics**

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

#### The condition of reflow (recommendation)



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