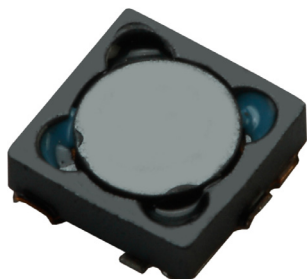


Shielded SMD Power Inductors **multicomp**^{PRO}

**RoHS
Compliant**



Features

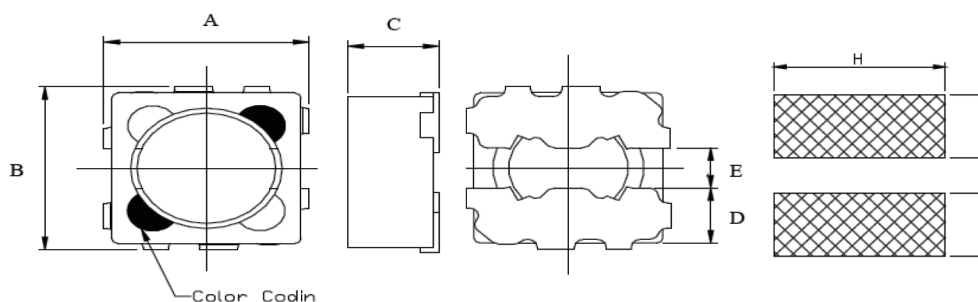
- Low profile, low RDC, lower resistance and high current handling capacities
- Flat bottom surface ensures secure, reliable mounting
- Magnetically shielded structure that ensures the high-density mounting configurations

Applications

- PDA, DSC, PDA And Other Electronic Equipments
- Hard Disk Drives
- Low Profile/ Low Resistance Specifically Suitable For Portable Telephones

Characteristics

- Saturation Rated Current(IDC): The current when the inductance becomes 10% or 35% lower than its initial value.
- Temperature Rise Current (Irms): For a 25°C rise above 25°C ambient.
- Operating temperature range: -25°C to 105°C



Dimensions

Unit: mm

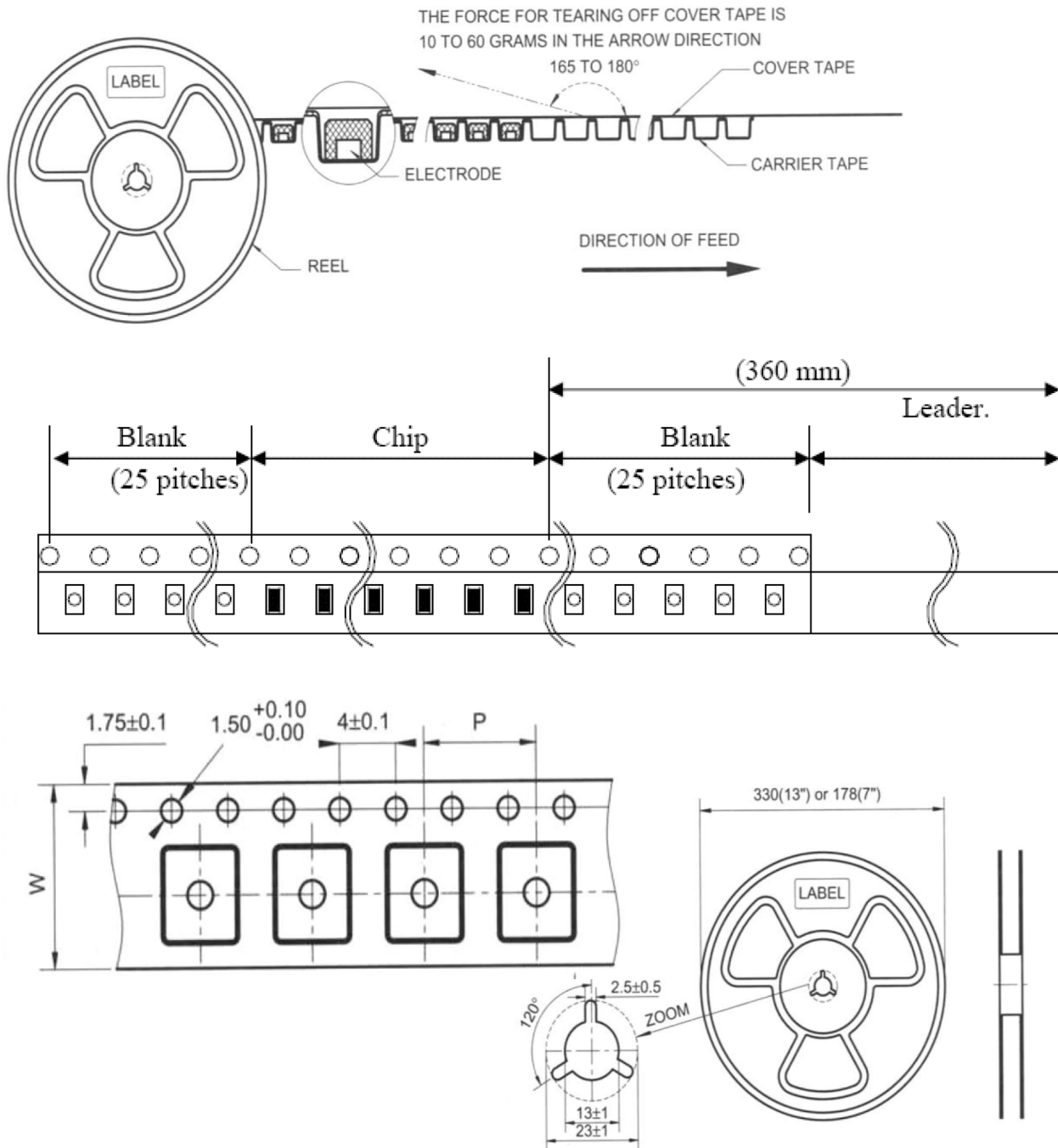
Code	A	B	C max.	D	E	H	I	J
10	3.2±0.2	3.2±0.2	1.05	1.1	0.8	3.6	1.4	0.8
18	4.2±0.2	4.2±0.2	1.8	1.3	1.4	4.6	1.6	1.4

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Tape and Reel specifications



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Unit: mm

Case Code	Tape size		Parts Per Reel
	W	P	7"
10	12	8	1000
18			

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	No case deformation or change in appearance. $\Delta L/L \leq 10\%$	Temperature 85±2°C, Time: 48±2 hours, Tested after 1 hour at room temperature.
Low temperature Storage test		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

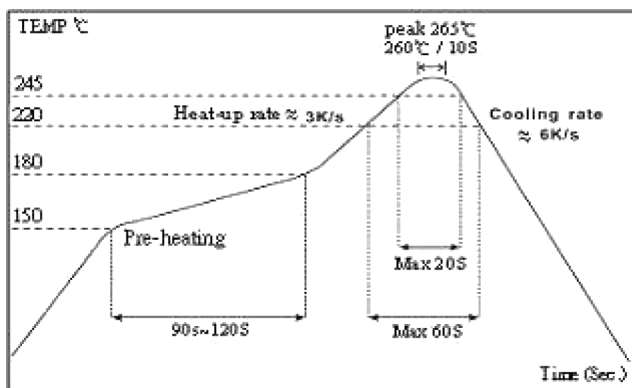
Test Items	Specifications	Test Conditions / Test Methods
Solderability test	Terminal area must have 90% minimum solder coverage.	Product with Lead-free terminal: Dip pads in flux then dip in solder pot at 245±5°C for 3 seconds.
Resistance to Soldering Heat	No case deformation or change in appearance.	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 appearance. $\Delta L/L \leq 10\%$	Apply frequency 10Hz to 55Hz. 1.5mm amplitude in each of perpendicular direction for 2 hours.
Shock resistance		Drop down with 981m/s ² (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 (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) Typ.		I rms (A) Typ.	Colour Code
						L drop 10%	L drop 35%		
MP002871	10	6.8	20%	1kHz, 1V	0.33	0.46	0.6	0.7	White
MP002872	18	10			0.165	0.9	1.1	1.05	Red

The condition of reflow (recommendation)



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