## Shielded SMD Power Inductors Multicomp PRO



### RoHS **Compliant**



#### **Features**

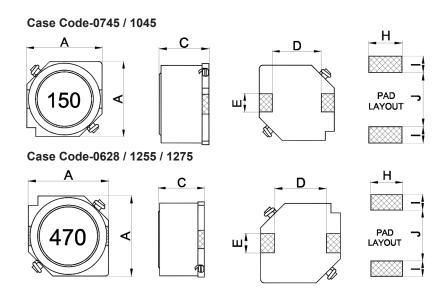
- Compact, low profile with low DCR and large current
- With magnetically shielded against radiation
- Flat bottom surface allows reliable mounting onto the board
- Available on tape and reel for auto surface mounting

### **Applications**

- Portable Telephones
- Personal Computers
- DC/DC Converters, etc.
- Other Various Electronic Appliances

### **Characteristics**

- Saturation Rated Current (I sat): The current when the inductance becomes 30% lower than its nominal value. (Ta=25°C)
- Temperature Rated Current (I rms): The actual current when the temperature of coil becomes to Δ 40°C. (Ta=25°C)
- Operating temperature range: -40°C to 125°C



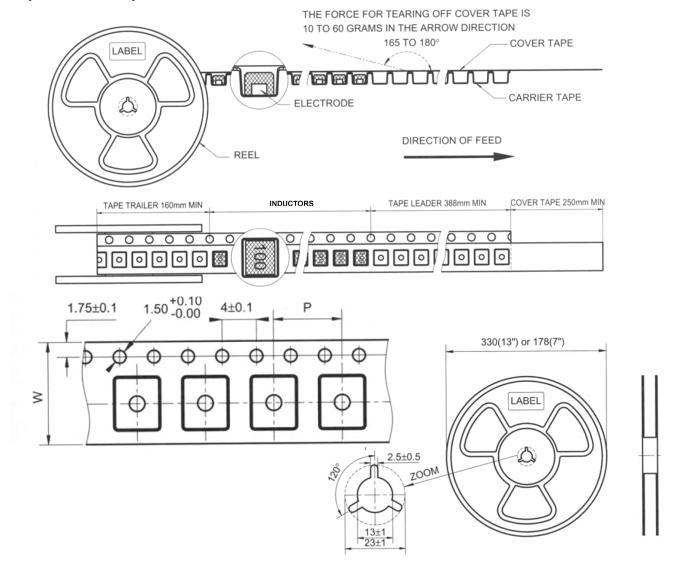


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Dimensions							
							Unit:mm
Case Code	Α	С	D	E	н	I	J
0628	6.±0.2	2.8±0.2	4	2	2.2	1.5	4
0745	7.±0.2	4.5±0.3	4	2	2.2	1.5	4
1045	10.1±0.3	4.5±0.3	6	3	3.2	2.5	5.6
1255	12.5±0.3	5.5±0.35	8.6	3	3.2	2.5	8.6
1275	12.5±0.3	7.5±0.35	8.6	3	3.2	2.5	8.6

### Tape and Reel specifications





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Casa Cada	Таре	Parts Per Reel		
Case Code	W	Р	13″	
0628	16	12	1000	
0745	10	12	1000	
1045		16	750	
1255	24		350	
1275				

### 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 -40±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**

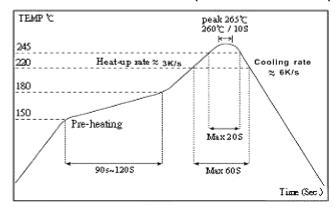
Test Items	Specifications	Test Conditions / Test Methods		
Solderability test	Terminal area must have 90% minimum solder coverage.	Product with Lead-free terminal: Dip pads in flux then dip in solder pot at 245±5°C for 3 seconds.		
Resistance to Soldering Heat	No case deformation or change in appearance.	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	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.		



## Shielded SMD Power Inductors



### The condition of reflow (recommendation)



### **Electrical Characteristics**

Part No	Case Code	L (µH)	Tolerance	Test Condition	DCR (Ω) ±20%	IDC (A) max.		
						I sat	l rms	
MP002859	0628	6.8	20%		0.052	-	1.5	
MP002860	0745	3.3				0.02	-	2.5
MP002861	1045	22				0.059	-	2.1
MP002862	1255	68		20% 1kHz, 0.5V	0.083	1.3	2.2	
MP002863		100			0.117	1.1	1.8	
MP002864	1275	10	]		0.016	5.5	4.4	
MP002865		47			0.053	2.7	3	

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