

RoHS Compliant



Features

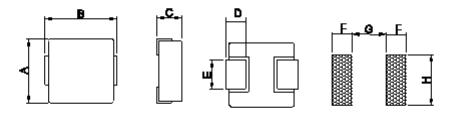
- · Large current adaptable
- · Footprint compatible with most standard
- Lower temperature rise at large current
- Low profile, low DCR
- · Available on tape and reel for auto surface mounting

Applications

- · Laptop / Desktop / Notebook Computers
- · Terminals / Portable Servers / Workstation
- DC/DC Converter in Distributed Power Systems or VRM Applications
- · Thin Type On-board Power Supply Module for Exchanger

Characteristics

- Saturation Rated Current would cause inductance to drop approximately 25%(0402 drop approximately 30%)
- Temperature Rise Current would cause an approximately Δ T of 40°C
- · All test data is referred to 25°C ambient



DimensionsUnit: mm

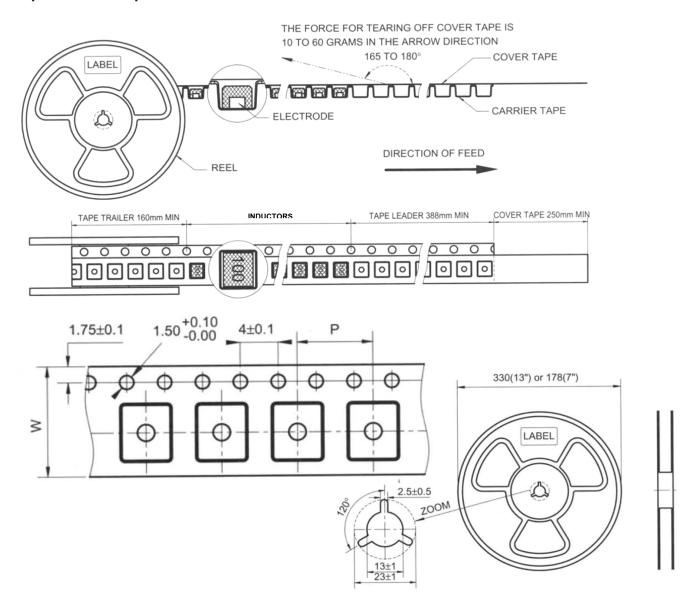
Case Code	Α	В	C max.	D	E	F	G	Н
0420	4.1±0.5	4.5±0.5	2.1	0.8±0.5	2±0.5	1.5	2.5	2.2
0530	5.0±0.5	5.5±0.5	3	1.2±0.5	2±0.5	2	3	2.5
0630	6.8 max	7.6 max	3	1.6±0.5	2.9±0.5	2.5	3.7	3.5

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Tape and Reel specifications





Unit: mm

Case Code	Таре	Parts Per Reel	
Case Code	W	Р	13″
0420	12	8	3500
0530	12	8	2500
0630	16	12	1500

General Characteristics

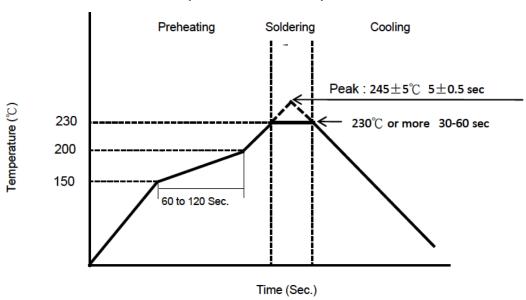
Operating temperature range:: -40°C to 125°C

Item	Requirement	Test Method			
Solderability	More than 90% of the terminal electrode should be covered with solder	230±5°C for 4±1 seconds			
Solder Heat Resistance		260±5°C for 10±1 seconds			
Heat Resistance		Temperature: 125±5°C Time: 500 hours Tested after 2 hour at room temperature			
Cold Resistance		Temperature: -40±5°C Time: 500 hours Tested after 2 hour at room temperature			
	Inductance within±20% of initial value No disconnection or short circuit The appearance shall not break	One cycle:			
		Step	Temperature(°C)	Time (min.)	
Thermal Shock		1	-40±5°C	30	
Thermal Shock		2	Room temperature	3	
		3	125±5°C	30	
		4	Room temperature	3	
Humidity Resistance		Temperature: 40±2°C, 90~95% relative humidity Time: 500 hours Tested after 2 hour at room temperature			
Vibration Test	Inductance within±5% of initial value The appearance shall not break	After vibration for 1 hour, in each of three orientations at sweep vibration (10~55~10Hz) with 1.52mm P-P amplitudes			



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The condition of reflow (recommendation):



Electrical Characteristics

Operating temperature range:: -40°C to 125°C

Part No	Case Code	Inductance (µH)	Tolerance	Test Condition	DCR (mΩ) max.	Saturation Current (A) Max.	Temperature Rise Current (A) Max.
MP002761		1	20%	20% 100kHz, 0.25V	27	7	4.5
MP002762	0420	1.5			46	6	4
MP002763		2.2			58	5	3
MP002764	0530	0.22			4.52	21	15.5
MP002765		0.47			7.04	16	12.2
MP002766		1.5			20.7	11	7.2
MP002767		2.2			29.2	10	5.8
MP002768		4.7			77.5	8.2	3.5
MP002769	0630	2.2			20	14	8
MP002770		4.7			40	10	5.5
MP002771		6.8			60	8	4.5
MP002772		10			105	7	3

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