



## DISCRIPTION

### FEATURES

Toroid core  
Excellent Mechanical Strength  
Excellent Solderability  
High Reliability  
Low Profile

### OPTIONS

Tape & Reel is Standard ( Qty:2000pcs )  
Bulk Packing Available for smaller quantites  
Tolerance: M=20% is Standard,  
Tighter Tolerances Available

### APPLICATIONS

DC/DC, AC/DC converter  
Filter and Noise suppression  
Communication System  
Automotive Systems  
Liquid Crystal Televisions  
Network Systems  
Computer Peripheral Equipment

## PHYSICAL CHARACTERISTICS

- IDC Max: Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- RDC: QuadTech 1880 Milliohm meter
- Operating temperature: -40°C ~ +125°C
- Storage Temperature: -55°C ~ +125°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E

## ELECTRICAL SPECIFICATIONS

Properties	Test conditions		Value	Unit	Tol.
Inductance		L	590	µH	see Site 2
Q factor		Q	---		min.
DC-resistance		DCR typ.	---	Ω	typ.
DC-resistance		DCR max.	0,020	Ω	max.
Self-Res. Freq.		SRF	---	MHz	min.
Test-Freq.			10	KHz	
Rated Current		IDC	5,60	A	max.
Saturation Current		I SAT	---	A	max.

1. This electronic component is meant to be used in general electronic equipment. Before the incorporation of this component into any equipment with higher and more reliable requirements such as aviation, aerospace, submarine, nuclear control, transportation, transportation signal, disaster prevention, medical, public information network, etc. or if there is a possibility of injuries or damages to the human body, Edcon -Components must be informed before the stage of design-in. Evaluation checks for safety have to be performed on each electronic components used in electrical circuits that require high safety and reliability functions.

### SMT TOROIDAL COMMON MODE CHOKES

Part No.: **S39009-591**

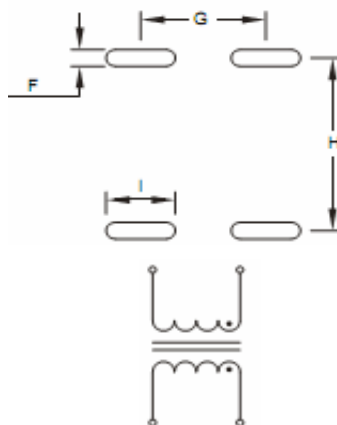
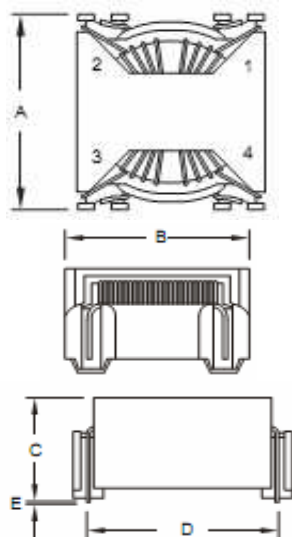
Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	25.06.2009
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## TECHNICAL INFORMATION

### Dimensions ( mm )

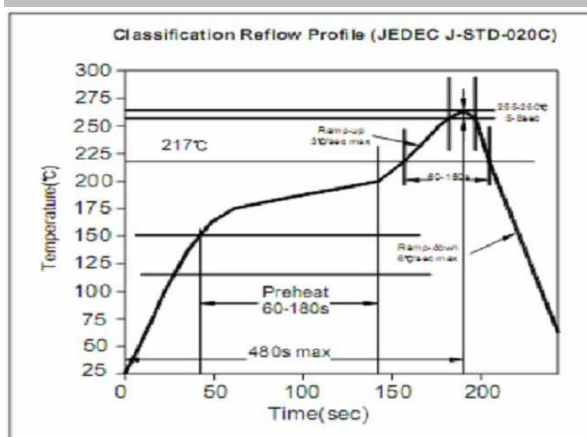


<b>A</b>	19,0 Typ
<b>B</b>	16,5 Typ
<b>C</b>	8,89
<b>D</b>	16,76
<b>E</b>	0,63
<b>F</b>	1,52
<b>G</b>	11,30
<b>H</b>	16,76
<b>I</b>	4,50

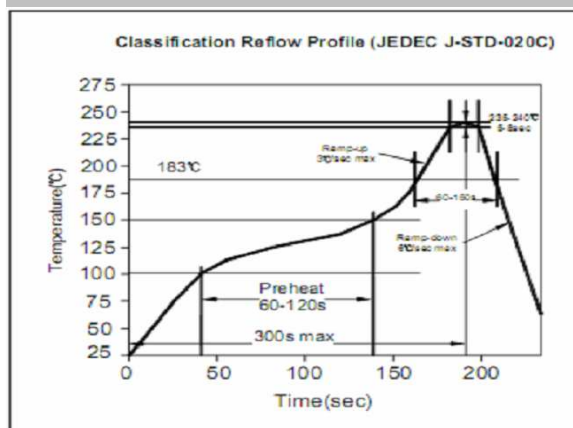
### Ordering Information

Serie and Range	Tolerance	ROHS	Packing
<b>S39009-591</b>	<b>M</b>	<b>R</b>	<b>TR</b>
	<b>K = 10%</b>	<b>R = ROHS</b>	<b>BU = Bulk Ware</b>
	<b>M = 20%</b>	<b>N = non ROHS</b>	<b>TR = Tape Reel</b>
	<b>Y = 25%</b>		
	<b>N = 30%</b>		

### Soldering Profile for Lead Free Soldering 255-260°C



### Soldering Profile for Lead Free Soldering 235-240°C



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