



## DISCRIPTION

### FEATURES

Higher Frequency  
 High Saturation Material  
 Low EMI Radiation  
 Pick and PPlace  
 Low DC Resistance

### OPTIONS

Tape & Reel is Standard ( Qty:2000pcs )  
 Bulk Packing Available for smaller quantities  
 Tolerance: J=5% and K=10% is Standard,  
 Tighter Tolerances Available

### APPLICATIONS

Electronic Appliances  
 DC-DC Conversion ( Paraller Mode )  
 Isolation/Coupling ( Transformer )  
 Input Filter ( Serial Mode )  
 EMI/RFI Suppression

## PHYSICAL CHARACTERISTICS

- IDC Max: Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- RDC: QuadTech 1880 Milliohmmeter
- Operating temperature:-40°C ~ +105°C
- Storage Temperature: -40°C ~ +105°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		<b>L</b>	12	$\mu$ H	see Site 2
Q factor		<b>Q</b>	---		min.
DC-resistance		<b>DCR typ.</b>	---	m $\Omega$	typ.
DC-resistance		<b>DCR max.</b>	47,2	m $\Omega$	max.
Self-Res. Freq.		<b>SRF</b>	52	MHz	min.
Test-Freq.			10	KHz	
Rated Current		<b>IDC</b>	3,50	A	max.
Saturation Current		<b>I SAT</b>	---	A	max.

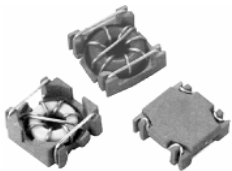
1. This electronic component is meant to be used in general electronic equipment. Before the incorporation of this component into any equipment with higher and more reliable requirements such as aviation, aerospace, submarine, nuclear control, transportation, transportation signal, disaster prevention, 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 TOROID CHOKES

Part No.: **S39012-120**

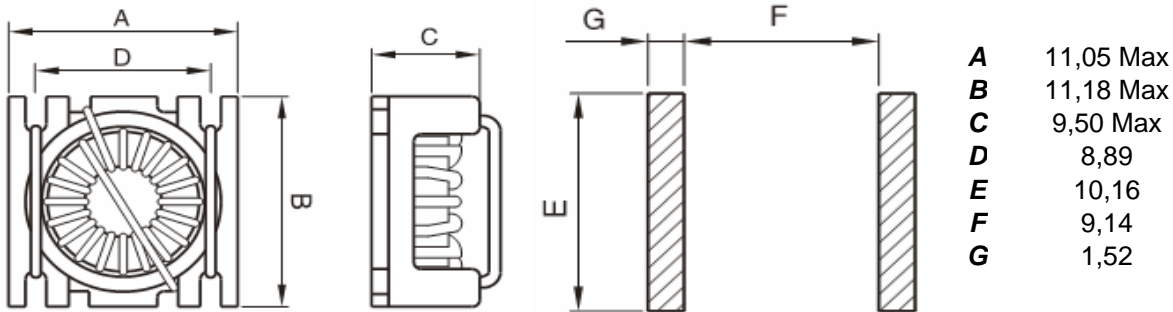
Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	25.06.2009
APPD:	Pong			FINISH	Vienna	Sheet	1 from 2



## TECHNICAL INFORMATIONS

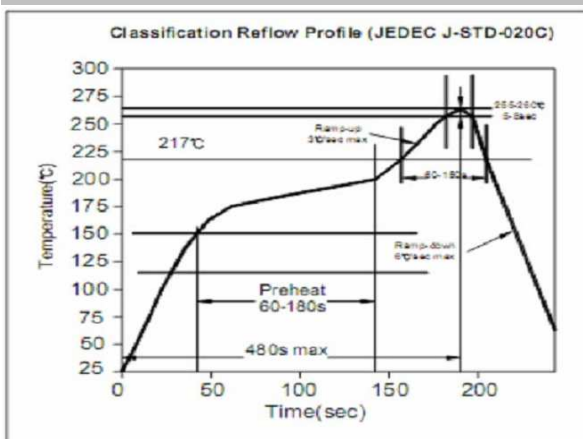
### Dimensions ( mm )



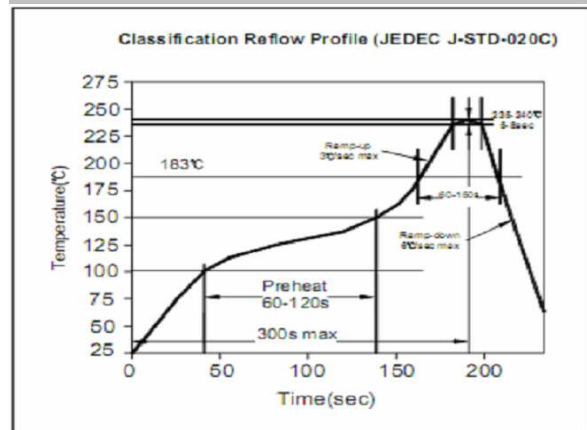
### Ordering Information

Serie and Range	Tolerance	ROHS	Packing	Material
S39012-120	M	R	TR	B
	J = 5%	R = ROHS	BU = Bulk Ware	18
	K = 10%	N = non ROHS	TR = Tape Reel	
	M = 20%			
	N = 30%			

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



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



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