

# EDCON-COMPONENTS



## Anti Surge Melf Resistor ( Non Inductive Type)

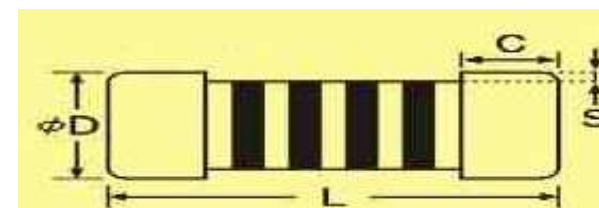
### Characteristics

Item	Characteristics	Test Method
Operating Temp. Range	. -55°C ~ 155°C	
Temperature Coefficient	. +/- 100ppm 200ppm, 500ppm, 1000ppm/°C	JIS-C 5202; 5,2
Load Life Humidity	. +/- 5%	40°C +/- 2°C, 90%~95% R, 1000h, 1,5h "on" / 0,5h "off" cycle
Load Life	. +/- 5%	70°C +/- 2°C, 1000h, 1,5h "on" / 0,5h "off" cycle
Resistance to Soldering heat	. +/- 2%	260°C +/- 5sec, 5sec +/- 1 sec
Solderability	90% Coverage Min.	235°C +/- 5sec, 2sec +/- 0,5 sec
Bending test	. +/- 1%	Holding point width 90mm, Bending 5mm, 1 time
Anti-Surge Characteristic	. +/- 5%	Voltage of $\sqrt{(2xPxRxT/x)}$ room temperature. Number of cycles: 10000
Non-Combustibility	The resistor shall withstand Overload test in accordance with Article UL-94, V-0 without producing a fire hazard.	

### Technical Informations

Serie	Size	Dimensions (mm)			S	
		L	D	C	Max	Min
X23039	0411	11,2 / +/-0,3	4,7 / +/-0,3	2,6 / +/-0,2	0,5 / +/- 0,1	

### Technical Drawing Case



### Packing Informations

Serie	Size	Tape/Reel	Bulk	Carton
X23039	0411	1500PCS	-----	-----

### Anti Surge Melf Resistor Size 0411

Part No.: **X23039**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.04.2009
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 4

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## Range Specification Value

Serie	Size	Ordering Code Power	Power Rating	Resistance Range	Tolerance	Max. Surge Voltage
X23039	0411	E	2,0W	1,0 Ohm ~ 2,2K Ohm	5% / 10% / 20%	200V

**Anti Surge Melf Resistor  
Size 0411**

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## Ordering Informations

Serie	Range Code	Ordering Power Code	T.C.R Code	Tolerance Code	ROHS	Packing Code				
<b>X23039</b>	<b>102</b>	<b>E</b>	<b>1</b>	<b>M</b>	<b>R</b>	<b>TR20</b>				

<b>102=</b> 1,0K Resistance Range look table	<b>E=</b> 2,0W	<b>1=</b> +/- 100ppm	<b>J=</b> Tol. +/-5%	<b>R=</b> ROHS Conform	<b>TR20=</b> Tape Reel 2000PCS
		<b>2=</b> +/- 200ppm	<b>K=</b> Tol. +/- 10%	<b>N=</b> NON ROHS	
		<b>3=</b> +/- 500ppm	<b>M=</b> Tol. +/- 20%	<b>BU05=</b> Bulk Ware 500PCS	
		<b>4=</b> +/- 1000ppm			

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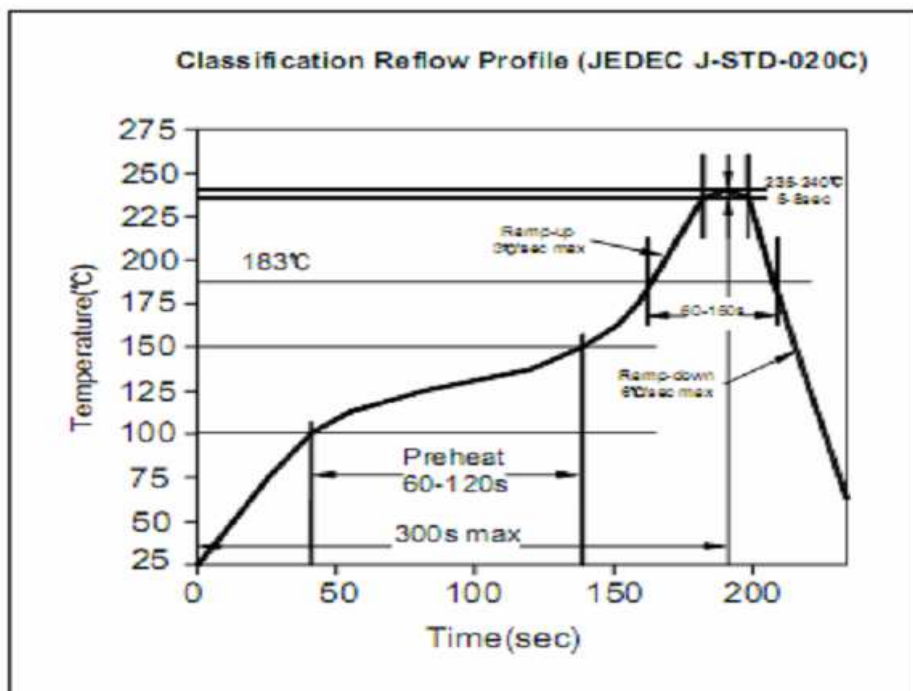
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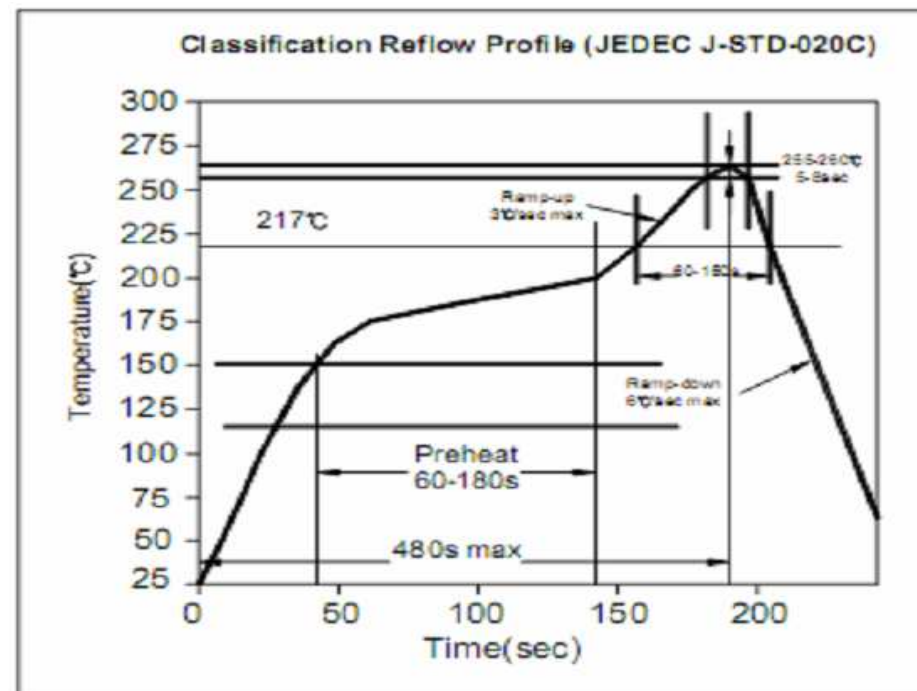


## Soldering Profile Curve

### Soldering Profile for Lead Soldering



### Soldering Profile for Lead Free Soldering



**Anti Surge Melf Resistor  
Size 0411**

Part No.: **X23039**

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