

# EDCON-COMPONENTS



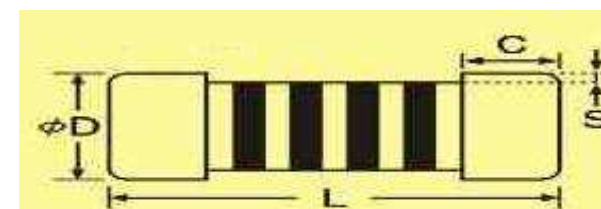
## Characteristics

Item	Characteristics	Test Method
Operating Temp. Range	. -55°C ~ 155°C	
Temperature Coefficient	. +/- 100ppm 50ppm, 25ppm, 15ppm/°C	JIS-C 5202; 5,2
Short Time overload	. +/- (0,5% + 0,05 Ohm)	Rating Voltage x 2.5 or Max. Overload voltage for 5 sec. Whichever less
Pulse Overload	. +/- (0,5% + 0,05 Ohm)	Rating Voltage x 3 or Max. pulse overload voltage for 10.000 cycle (1sec. "on 25 sec "off". Whichever less
Temperature cycling	. +/- (0,5% + 0,05Ohm)	. -55°C (30min) / +85°C (30min) for 5 cycle
Load Life Humidity	. +/- (1% + 0,05 Ohm)	40°C +/- 2°C, 90%~95% R, 1000h, 1,5h "on" / 0,5h "off" cycle
Load Life	. +/- (1% + 0,05 Ohm)	70°C +/- 2°C, 1000h, 1,5h "on" / 0,5h "off" cycle
Resistance to Soldering heat	. +/- (0,5% + 0,05 Ohm)	260°C +/- 5sec, 5sec +/- 1 sec
Solderability	90% Coverage Min.	235°C +/- 5sec, 2sec +/- 0,5 sec
Bending test	. +/- (0,5% + 0,05 Ohm)	Holding point width 90mm, Bending 5mm, 1 time
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
X23004	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
X23004	0411	1500PCS	1500PCS	10000PCS

### Metallfilm Melf Resistor Size 0411

Part No.: **X23004**

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

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## Range Specification Value

Serie	Size	Ordering Code Power	Power Rating	Max Working Voltage	Max Overload Voltage	T.C.R.	Resistance Range				
							. +/- 0,1%	. +/- 0,25%	. +/- 0,5%	. +/- 1%	. +/- 5%
X23004	0411	E	2,0W	500V	1000V	. +/- 50ppm +/- 100ppm			10R ~ 100K	1,0R ~ 1,0M	0,1R ~ 1,0M

**Metallfilm 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>X23004</b>	<b>104</b>	<b>E</b>	<b>3</b>	<b>A</b>	<b>R</b>	<b>TR15</b>				

<b>104=</b> 100K Resistance Range look table	<b>E=</b> 2,0W	<b>3=</b> +/- 50ppm	<b>C=</b> Tol. +/- 0,5%	<b>R=</b> ROHS Conform	<b>TR15=</b> Tape Ree 1000PCS
		<b>4=</b> +/- 100ppm	<b>F=</b> Tol. +/- 1%	<b>N=</b> NON ROHS	
			<b>J=</b> Tol. +/- 5%		<b>BU10=</b> Bulk Ware 1000PCS

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Part No.:	<b>X23004</b>
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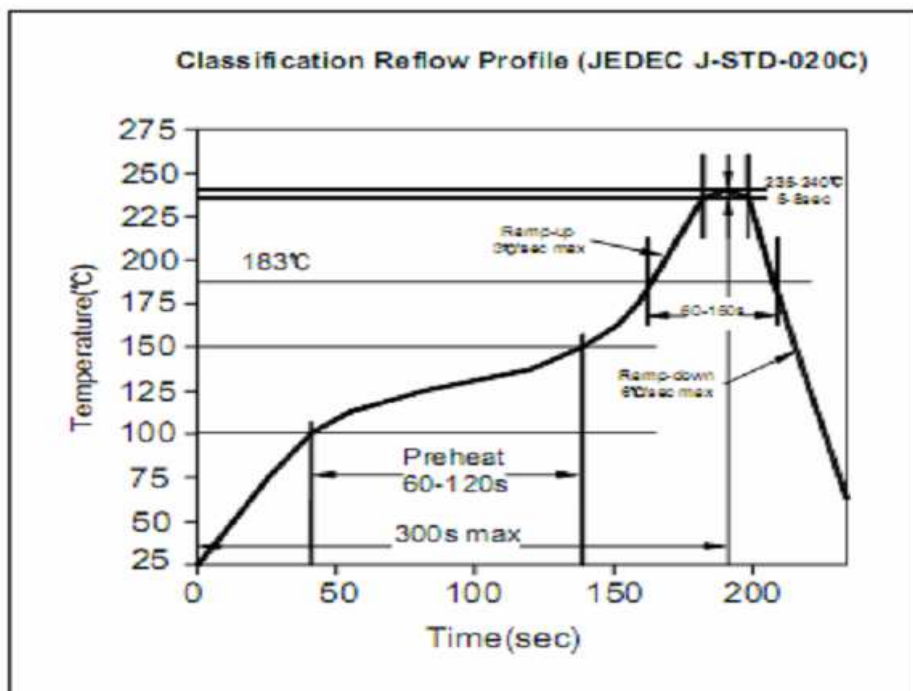
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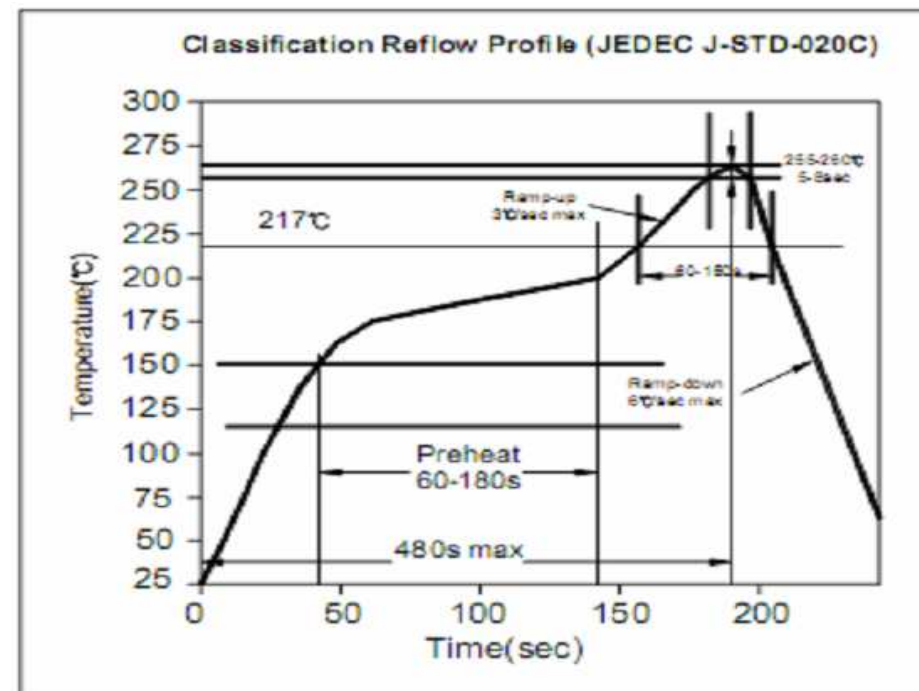


## Soldering Profile Curve

### Soldering Profile for Lead Soldering



### Soldering Profile for Lead Free Soldering



**Metallfilm Melf Resistor  
Size 0411**

Part No.: **X23004**

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