

# EDCON-COMPONENTS



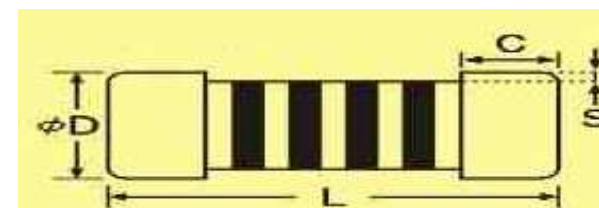
## Characteristics

Item	Characteristics	Test Method
Operating Temperature	. -40°C ~ + 200°C	
Temperature Coefficient	. +/- 350ppm/°C	JIS-C 5202; 5.2
Short Time overload	. +/- 1%	Rating Voltage x 2,5 or Max. overload for 5 sec.
Pulse Overload	. +/- 2%	Rating voltage x 4 or max. pulse overload voltage for 10.000 cycle ( 1 sec. "on" 25 sec. "off" )
Temperature cycling	. +/- 1%	. -55°C (30min) / +85°C (30min) for 5 cycle
Load Life Humidity	. +/- 5%	40°C +/- 2°C, 90%~95% R, 1000h, 1,5h "on" / 0,5h "off" cycle
Load Life Humidity	. +/- 5%	70°C +/- 2°C, 1000h 1,5 "on" / 0,5h "off" cycle
Resistance to soldering heat	. +/- 2%	260°C +/- 5°C, 5sec +/- 1 sec
Solderability	90% Coverage/ Min	235°C +/- 5°C, 2sec +/- 0,5sec
Bending Test	. +/- 1%	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
X23019	0309	9,5 / +/-0,3	3,6 / +/-0,3	2,2 / +/-0,2	0,4 / +/- 0,1	

## Technical Drawing Case



## Packing Informations

Serie	Size	Tape/Reel	Bulk	Carton
X23019	0309	2000PCS	-----	-----

### Metal Oxide Film Melf Resistor Size 0309

Part No.: **X23019**

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	Max. Rating Voltage	Max.Overload Voltage	Tolerance	
						2%	5%
X23019	0309	C	0,5W	350	600	0,5R ~ 82K	0,5R ~ 82K
		D	1,0W	350	600	0,5R ~ 82K	0,5R ~ 82K

**Metal Oxide Film Melf  
Resistor Size 0309**

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## Ordering Informations

Serie	Range Code	Ordering Power Code	T.C.R Code	Tolerance Code	ROHS	Packing Code				
<b>X23019</b>	<b>471</b>	<b>C</b>	<b>5</b>	<b>J</b>	<b>R</b>	<b>TR20</b>				

471= 470 Ohm Resistance Range	C= 0,5W	5= 350ppm	G= Tol. +/- 2%	R= ROHS Conform	TR20= Tape Reel 2000PCS
	D= 1,0W		J= Tol. +/- 5%	N= NON ROHS	
BU05= Bulk Ware 500PCS					

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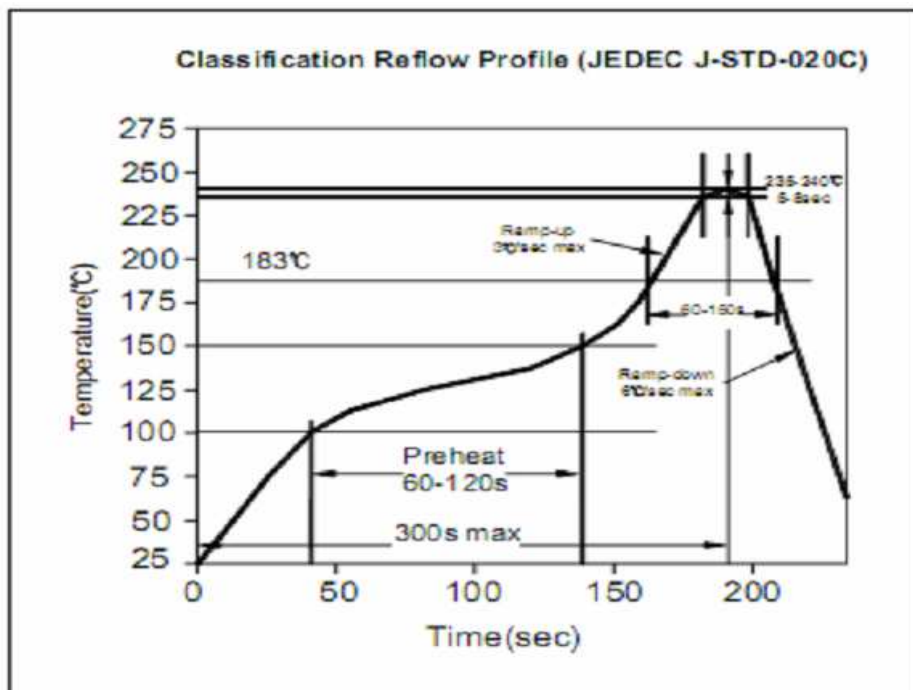
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APPD:	Schumi			FINISH	Jamy			Sheet No.	3 from 4	

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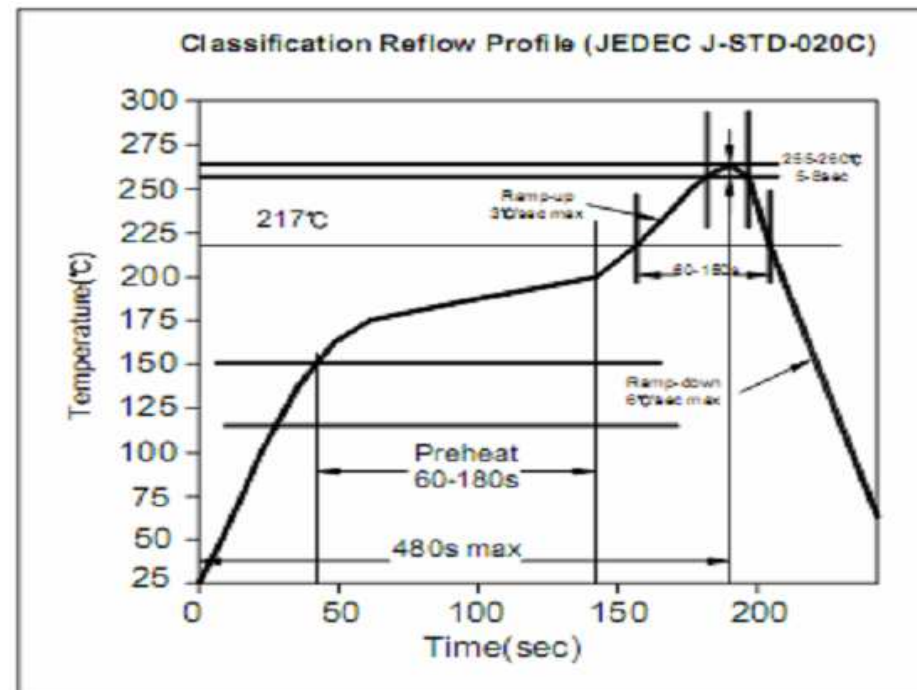


## Soldering Profile Curve

### Soldering Profile for Lead Soldering



### Soldering Profile for Lead Free Soldering



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