



# DATA SHEET

## Precision Metal Film Resistor S-Size 2,5x6,8mm 0,50Watt

### Serie: X34003

**Precision Metal Film Resistor S-  
Size 2,5x6,8mm 0,50Watt**

Serie No.: **X34003**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	06.10.2011
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 6	

Customer:

# EDCON-COMPONENTS



## Specifications

Temperature coefficient	Within the maximum temperature coefficient specified
Short time overload	. $\pm$ (0,5% + 0,05 $\Omega$ ) Max, with no evidence of mechanical damage.
Insulation resistance	Min. 10.000 Mega Ohm
Dielectric withstanding voltage	No evidence of flashover , mechanical damage, arcing or insulation breackdown.
Pulse overload	. $\pm$ (1,0% + 0,05 $\Omega$ ) Max., with no evidence of mechanical damage.
Terminal strength	No evidence of mechanical damage.
Resistance to soldering heat	. $\pm$ (1,0% + 0,05 $\Omega$ ) Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Resistance to solvent	No deterioration of protective coating and markings.
Temperature cycling	. $\pm$ (1,0% + 0,05 $\Omega$ ) Max, with no evidence of mechanical damage.
Humidity (steady state)	. $\pm$ (2,0% + 0,05 $\Omega$ ) Max, with no evidence of mechanical damage.
Load life in humidity	Normal Type: $\pm$ (1,5% + 0,05 $\Omega$ ) Max. Non Flame Type: $\pm$ (5,0% + 0,05 $\Omega$ ) Max.
Load life	Normal Type: $\pm$ (1,5% + 0,05 $\Omega$ ) Max. Non Flame Type: $\pm$ (5,0% + 0,05 $\Omega$ ) Max.

## Features

- EIA standard color coding
- NON-Flame & NON-inductive available
- Low noise & voltage coefficient
- Low temperature coefficient range
- Wide precision range in small package
- Too low or too high ohmic value can be supplied on a case to case basis
- Nichrome resistor element provides stable performance in various environment
- Multipole epoxy coating on vacuum deposited metal film provides superior moisture protection

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## Dimensions



Power Rating at 70°C	Dimension (mm)				
	D max.	L max.	d±0.05	H±3	Packing Qty
0,50W	2,5	6,8	0,54	28	5000PCS

Maximum Working Voltage	Maxi,u, Overload Voltage	Dielectric Withstanding Voltage	Tolerance	Resistange Range	T.C.R.	Special Order		
						Tolerance	Resistance Range	T.C.R.
250V	500V	250V	± 1%	10Ω ~ 1MΩ	± 50PPM/°C	± 0,10%	100Ω ~ 100KΩ	± 15PPM/°C
			± 2%	10Ω ~ 1MΩ	± 100PPM/°C	± 0,25%	51,1Ω ~ 330KΩ	± 25PPM/°C
			± 5%	1Ω ~ 1MΩ	± 200PPM/°C	± 0,50%	10Ω ~ 1MΩ	± 50PPM/°C

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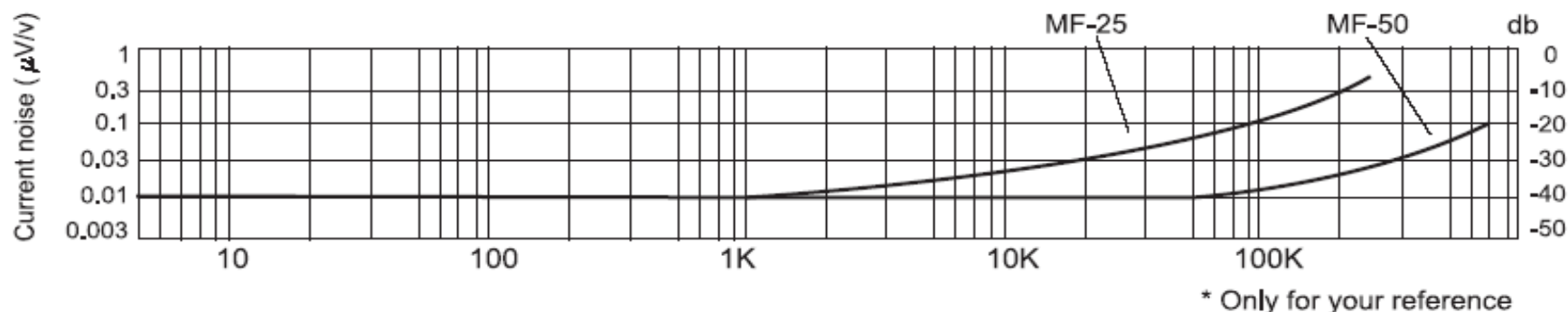
Part No.: **X34003**

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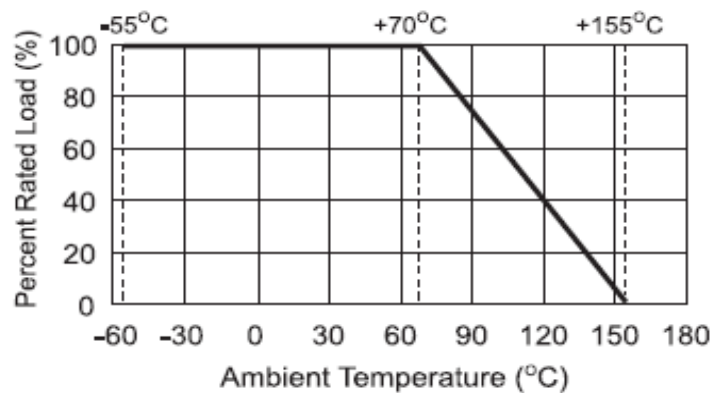
# EDCON-COMPONENTS



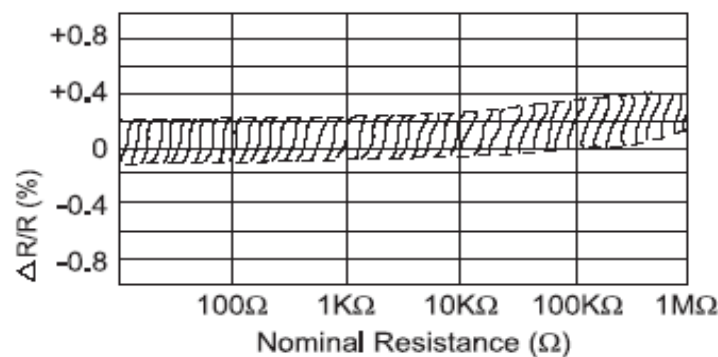
## Current Noise Level Curves



## Derating Curve



## Load Life



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# EDCON-COMPONENTS



## Ordering Informations

Serie	Range	Tolerance	PPM requirement	Feature	Special function	ROHS	Packing Code
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<b>X34003</b>	<b>1001</b>	<b>F</b>	<b>050</b>	<b>F</b>	<b>00</b>	<b>R</b>	<b>TA</b>
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<b>1001= 1K<math>\Omega</math></b>	<b>F= 1%</b>	<b>015= 15ppm</b>	<b>S= Standard</b>	<b>00= no function</b>	<b>R= ROHS Conform</b>	<b>BU= Bulk Ware</b>
<b>1R00= 1,0<math>\Omega</math></b>	<b>G= 2%</b>	<b>025= 25ppm</b>	<b>F= Non Flammability</b>			
<b>10R0= 10<math>\Omega</math></b>	<b>J= 5%</b>	<b>050= 50ppm</b>	<b>I= Non Inductive</b>			<b>TR= Tape Reel</b>
<b>1000= 100<math>\Omega</math></b>	<b>B= 0,1%</b>	<b>100= 100ppm</b>				
Range from 1 $\Omega$ ~ 1M $\Omega$ Row E96	<b>C= 0,25%</b>	<b>200= 200ppm</b>				
	<b>D= 0,5%</b>					

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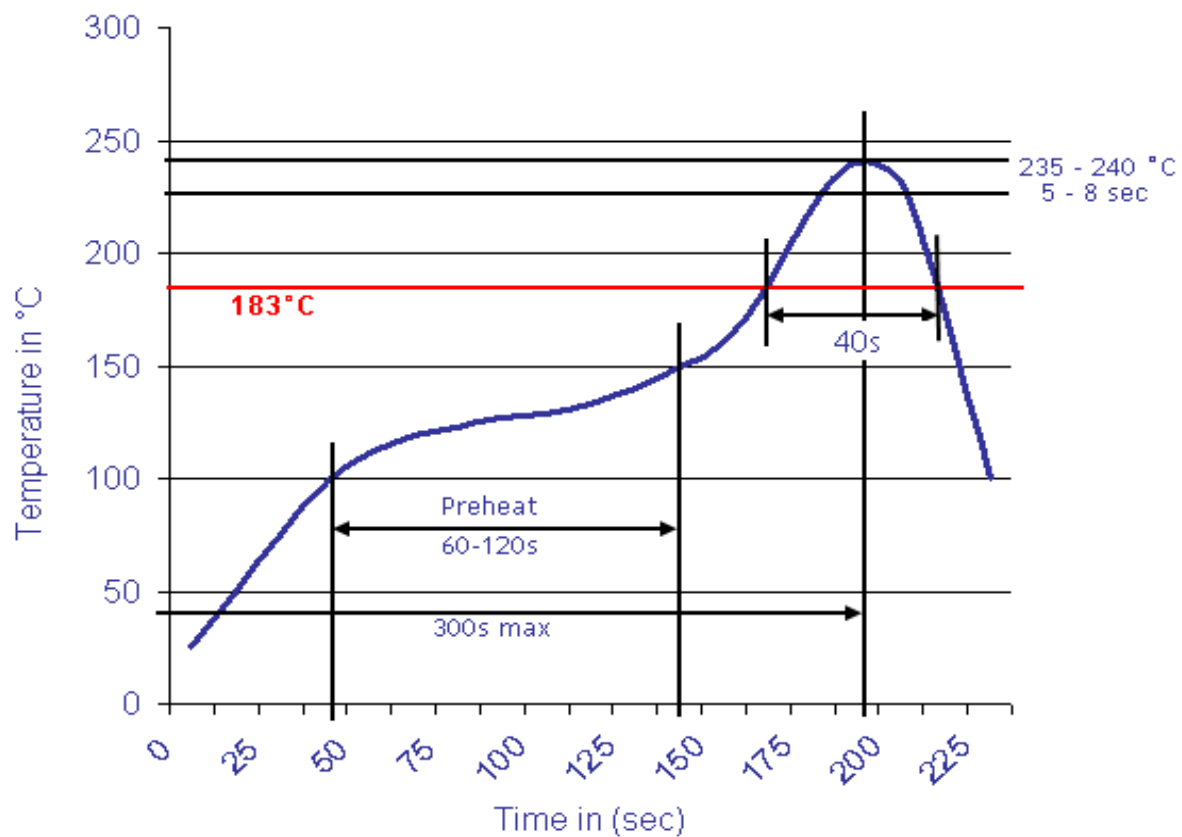
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



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