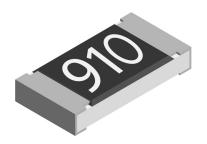
## Vishay Draloric



# Thin Film, Rectangular, Fusible, Resistor Chips



#### **FEATURES**

- · Metal film on high quality ceramic
- · Special protective top coat
- Flame retardant
- Sn solder contacts on Ni barrier layer
- Fusible resistor for constant voltage
- · Automatic placement compatibility

STANDARD ELECTRICAL SPECIFICATIONS								
	SIZE		POWER	LIMITING ELEMENT	TEMPERATURE	TOLERANCE	RESISTANCE	
MODEL	INCH	METRIC	RATING W <sub>70°C</sub>	VOLTAGE V≅ MAX	COEFFICIENT ppm/K	%	RANGE $\Omega$	E-SERIES
M25SI	1206	3216	0.25	√PxR	100	5	1R – 3K9	24

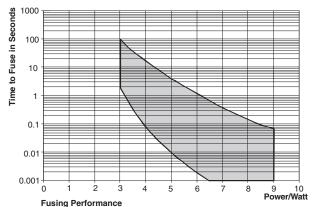
- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material.
- · Marking: 3 digits.

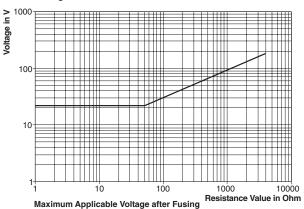
TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT	M25SI					
Rated Dissipation at 70°C	W	0.25					
Insulation Voltage (1 min)	V <sub>dc/ac peak</sub>	> 300					
Thermal Resistance 1)	K/W	≤ 220 <sup>1)</sup>					
Insulation Resistance	Ω	> 10 <sup>9</sup>					
Category Temperature Range	°C	- 55 / + 125					
Failure Rate	h <sup>-1</sup>	1 •10 <sup>-9</sup>					
Weight / 1000pcs	a	10					

<sup>1)</sup> Measuring conditions in acc. with CECC 40401

PULSE TEST DATA		
Pulse Power (Square Pulse)	0.9W	0.3W
Pulse Duration t <sub>i</sub>	100μs	100ms
Pulse Pause t <sub>p</sub>	100ms	1s
Number of pulses	10 <sup>5</sup>	10 <sup>5</sup>
Drift after pulse test	< 0.1%	< 0.1%

- Ask about extended value ranges.
- TC 50ppm/°C, Tolerance 1% on special request.
- Top coat: beige, transparent.



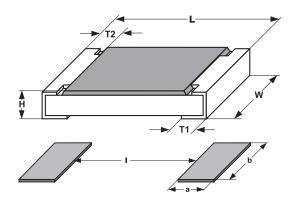


ORDERING INFORMATION							
M25SI	100	91R	5%	P5			
MODEL	TC ppm/K	RESISTANCE VALUE $\Omega$	TOLERANCE ± %	PACKAGING P5-Papertape 5000 pcs			

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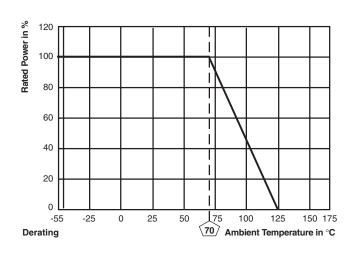
#### **DIMENSIONS**

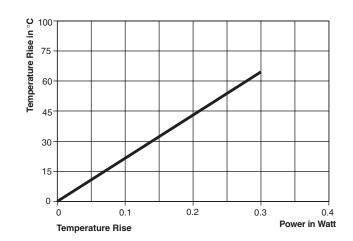


;	SIZE	DIMENSIONS [in millimeters]					
INCH	METRIC	L	W	Н	T1	T2	
1206	3216	3.2 <sup>+ 0.10</sup> <sub>- 0.20</sub>	1.6 ± 0.15	0.55 ± 0.05	0.45 ± 0.2	0.4 ± 0.2	

SIZE		SOLDER PAD DIMENSIONS in millimeters*					
INCH	METRIC	а	b	I	а	b	ı
1206	3216	0.9	1.7	2.0	1.1	1.7	2.3

\*Pads: recommendations only





PERFORMANCE						
TEST	CONDITIONS OF TEST	REQUIREMENTS1)				
Endurance Test at 70°C IEC 60115-1 4.25.1	1000 hours at 70°C 1.5 hours "ON", 0.5 hours "OFF"	≤ ± 1%				
Endurance at UCT IEC 60115-1 4.25.3	1000 hours at 125 °C without load	≤ ± 1%				
Thermal Shock IEC 60115-1 4.19, IEC 60068-2-14	Rapid change between upper and lower category temperature	≤ ± 0.2%				
Damp Heat Steady State IEC 60115-1 4.24, IEC 60068-2-3	56 days at 40°C and 93% relative humidity	≤ ± 0.5%				
Resistance to Soldering Heat IEC 60115-1 4.18, IEC 60068-2-20	10 seconds at 260°C solder bath temperature	≤ ± 0.2%				

<sup>1)</sup>Limits for change of resistance at test

#### **APPLICABLE SPECIFICATIONS**

- CECC40000 / 40400
- EN140400 / IEC 60115 1



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