



WIRE WOUND  
FUSIBLE RESISTORS  
CERAMIC ENCASED TYPE

**HSVF**  
SERIES  
AXIAL/VERTICAL MOUNTING  
Ceramic Type  
• 7 W  
• 10R to 47K

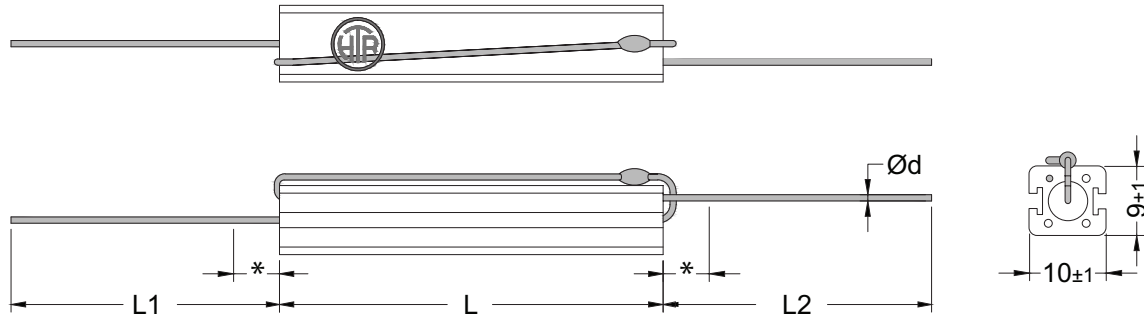




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**PHYSICAL CONFIGURATION**

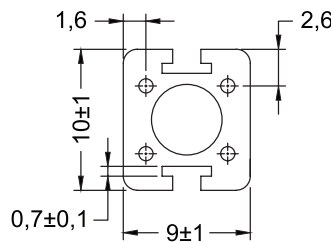


\* 6mm, reduced solderability in this area.

**PHYSICAL CONFIGURATION**

HTR TYPE	POWER RATING at 70°C	DIMENSIONS (mm)					RESISTANCE RANGE		TYPICAL WEIGHT PER PC (gms)
		L (±1.5)	L <sub>1</sub> (±3.0)	L <sub>2</sub> (±3.0)	Ød (±0.05)	LM ±1	min	max	
SV7F	7W	50.0	35.0	35.0	0.8	70	10R	47K	10

**PROFILE DIMENSIONS**



SV7F

**ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS /DATA**

PARAMETER/PERFORMANCE TEST&TEST METHOD	PERFORMANCE REQUIREMENTS
<b>Power Rating</b> (Rated Ambient Temperature)	7W
<b>Resistance Tolerances Available</b>	±10% (K); ±5% (J)
<b>Temperature Range</b>	-55°C to 150°C
<b>Voltage Rating / Limiting Voltage / Max working Voltage</b>	$V = \sqrt{P \times R}$
<b>Dielectric Withstanding Voltage / Voltage Proof</b> (based on limiting voltage x 2 for 60secs)	$\Delta R \pm (1\% + R05)$ -No flashover, mechanical damage, arcing or insulation breakdown.
<b>Temperature Co-efficient of Resistance</b>	Depending upon the resistance value and the resistance wire selected
<b>Insulation Resistance</b>	>1000MΩ (Min)
<b>Temperature Cycling</b> (Room temperature → -55°C → Room temperature → 200°C → Room temperature for 5 cycles)	$\Delta R \pm [2\% + R05]$
<b>Damp Heat</b> (Steady State) (40°C at 93% R.H for 1000 hours - no load applied)	$\Delta R \pm [2\% + R05]$ Average
<b>Endurance - Load Life</b> (70°C with limiting voltage - 1.5 hours on / 0.5 hours off for 1000 hours)	$\Delta R \pm [\leq 3\% + R05]$ Average



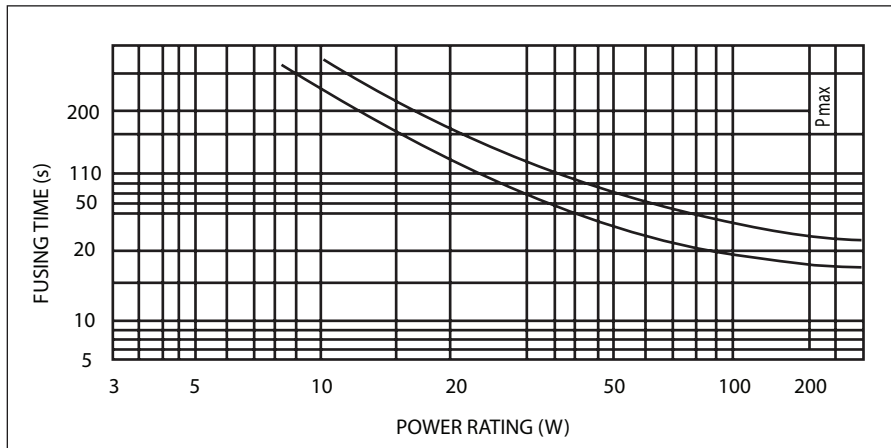
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## MECHANICAL SPECIFICATIONS

PARAMETER / PERFORMANCE TEST & TEST METHOD	PERFORMANCE REQUIREMENTS
<b>Terminal Tensile Strength</b>	50 Newtons.
<b>Resistance to Soldering Heat</b> (260°C - 270°C for 10 secs)	$\Delta R \pm [0.2\% + R05]$ - Typical
<b>Solderability</b> (As per IEC pub. 60068 - 2 - 20 Ta)	Must meet the requirements laid down
<b>Marking</b>	As per IEC Pub. 60062

## FUSING GRAPH



## MARKING TABLE

HTR PART NO	MARKING
HSVF SV7F* 100R J	HTR LOGO SV7F* 100R J DATE CODE

## MARKING TABLE

Series	HTR type	Packing	Resistance Value	Tolerance
HSVF	SV7F*	Bulk SV7F*	100R	J

For RoHS version - SV7F\*