

PHV PRECISION HIGH VOLTAGE RESISTORS



The PHV models use NiCr to achieve an extremely low temperature coefficient and an extremely high operating voltage. These models are also completely RoHS compliant.

GENERAL SPECIFICATIONS

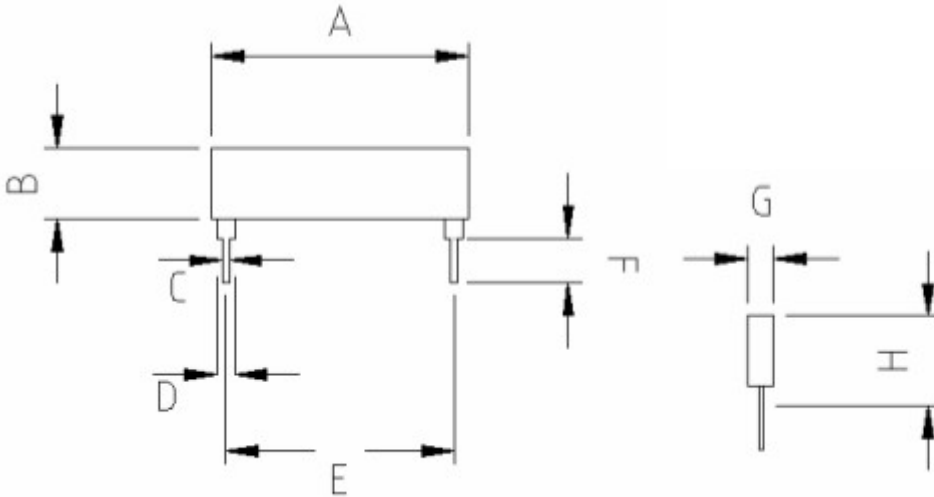
Product	Power Rating [70C]	Operating Temperature Range	Maximum Operating Voltage	Maximum Overload Voltage	Resistance Tolerance	Resistance Range	TCR [PPM/C]
PHV	1W	-40 to 85C	1200V	1500V	+0.10%	10KR-1MR	+25 +50
					+0.20%		
					+0.25%		
					+0.50%		
					+0.10%		
					+0.20%	1MR-40MR	
					+0.25%		
					+0.50%		
					+0.10%		

CHARACTERISTICS

Short Time Overload	$\Delta R \pm 0.5\%$	JIS-C-5202-5.5 - RCWV*2.5 or Max Overloading Voltage, 5s
Dielectric Strength	By type	MIL-STD-202F 301 - Apply Max Overload Voltage for 1min.
Insulation Resistance	>1000M Ω	MIL-STD-202F 302 - Apply 100VDC for 1min.
Thermal Shock	$\Delta R \pm 0.25\%$	MIL-STD-202F - -55C~150C,100 cycles
Load Life	$\Delta R \pm 0.5\%$	MIL-STD-202F 108A - RCWV, 70C, 1.5hr. ON, 0.5hr. OFF,Tot.1K~1048 hr.
Humidity (Steady State)	$\Delta R \pm 0.3\%$	MIL-STD-202F 103B - See Note1
Resistance to Dry Heat	$\Delta R \pm 0.2\%$	JIS-C-5202-7.2 - 96 hours @ +155C without load
Low Temp. Operation	$\Delta R \pm 0.2\%$	JIS-C-5202-7.1 - 1 hours,-65C, followed by 45minutes of RCWV
Bending Strength	$\Delta R \pm 0.2\%$	JIS-C-5202-6.1.4 - Bending Amplitude 3mm for 10 seconds
Solderability	95% min.	MIL-STD-202F Method 208H - 245C \pm 5C, 5 \pm 0.5 (sec)
Resistance to Soldering Heat	$\Delta R \pm 0.2\%$	MIL-STD-202F Method 210E - 260 \pm 5C, 10 \pm 1 seconds

Note 1: - 40C , 90~95%RH,RCWV 1.5 hr ON,0.5 hr OFF, Tot 1K~1048 hours

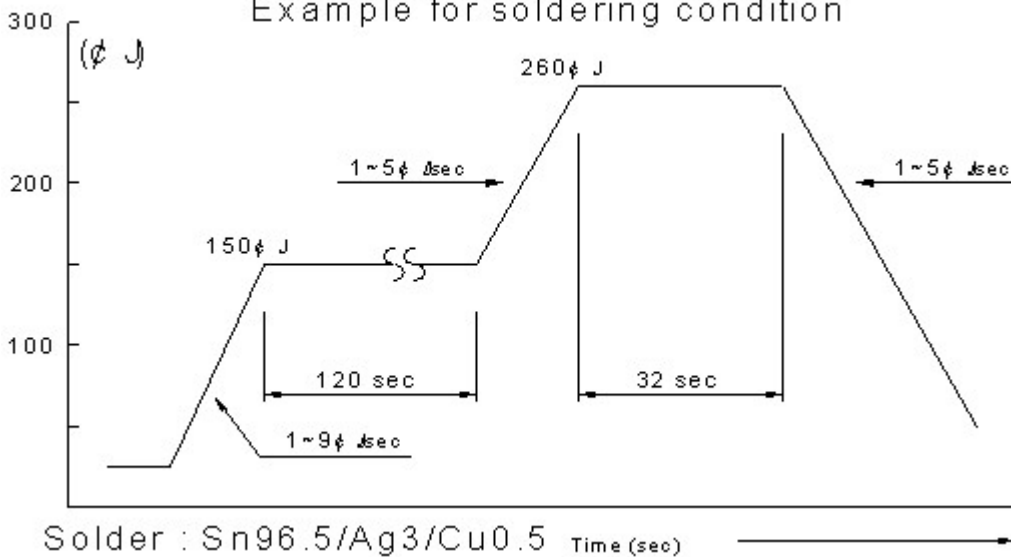
DIMENSIONS



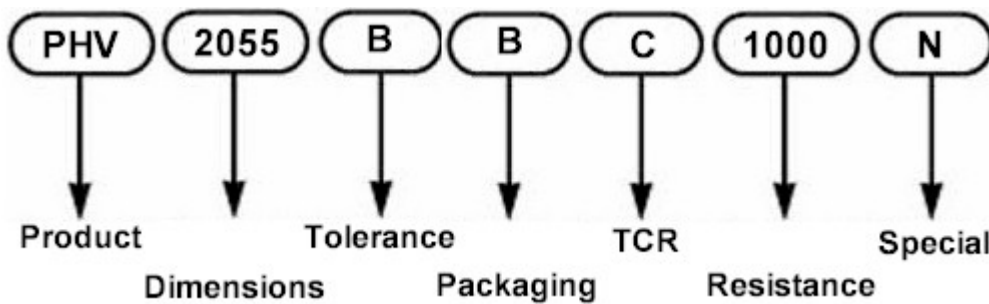
A	B	C	D	E	F	G	H
20±0.5	20±0.5	20±0.5	20±0.5	20±0.5	20±0.5	2.0 Max	7.5 Max

SOLDERING

Example for soldering condition



ORDERING PROCEDURE EXAMPLE



Notes:

- Tolerances: B ±0.10%; E ±0.20%; C ±0.25%; F ±0.50%; D ±1.00%
- Packaging: B = Bulk
- TCR: C+ -25PPM/C; D+ -50 PPM/C
- Special: N = No Marking