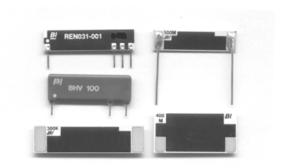


MODEL BHV SERIES High Voltage/High Value Thick Film SIP Epoxy Coated Resistors



APPPLICATIONS

- Photomultiplier power supplies
- Voltage sense in high voltage power supplies
- High Voltage bleeder resistors
- Deflection circuitry in display systems and monitors

ELECTRICAL

Resistance Range 1 Giga Ohm maximum Tolerance Standard: \pm 5%, \pm 10% Custom: \pm 1%, \pm 2% Temperature Coefficient of Resistance \pm 150 ppm/°C Maximum Voltage Coefficient 2 ppm/V Maximum

ENVIRONMENTAL (Per MIL – PRF – 83401)

Operating Temperature Range	-55°C to +125°C
Thermal Shock	ΔR : $\pm 0.50\%$
Terminal Strength	ΔR : $\pm 0.25\%$
Moisture Resistance	ΔR : $\pm 0.50\%$
Mechanical Shock	ΔR : $\pm 0.25\%$
Vibration	ΔR : $\pm 0.25\%$
Low Temperature Storage	ΔR : $\pm 0.25\%$
High Temperature Exposure	ΔR : $\pm 0.25\%$
Load Life, 1000 Hours	ΔR : $\pm 1.00\%$
Resistance to Solder Heat	ΔR : $\pm 0.25\%$
Dielectric Withstanding Voltage	5000 V Minimum
Marking Permanency	MIL - STD - 202, Method 215
Lead Solderability	MIL - STD - 202, Method 208
Flammability	UL 94V- 0 Rated
Storage Temperature Range	-55°C to +125°C

Consult factory for Voltage dividers and application specific devices

Specifications subject to change without notice

Model BHV





MECHANICAL

Cover Coat

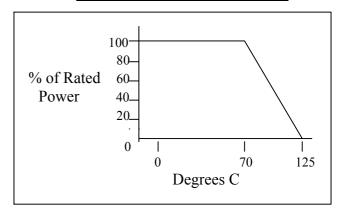
Substrate Resistor Style RS, PW & PF: Polymer Cover Coat Styles RF & RW: Epoxy Alumina

Alumina Cermet

POWER (WATTS) DISSIPATION AT 70°C

Model	Power (Max)	
BHV 10	1.0	
BHV 15	1.5	
BHV 20	2.0	
BHV 30	3.0	

POWER DERATING CURVE



ORDERING INFORMATION

BHV XXX10 <u>RS</u> Tolerance $F = \pm 1\%$ Model ____ $G = \pm 2\%$ Voltage Rating KV — $J = \pm 5\%$ $K = \pm 10\%$ Style -Resistance Code RS = Polymer coated substrate First 2 digits are significant with solder pads Last digit denotes number RW = Epoxy coated package of trailing zeros with round wire RF = Epoxy coated package with flat leads PF = Polymer coated substrate with flat leads PW = Polymer coated substrate with round wire

PACKAGING

	Standard:	Box	Capacity	100 units	
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Consult factory for Voltage dividers and application specific devices

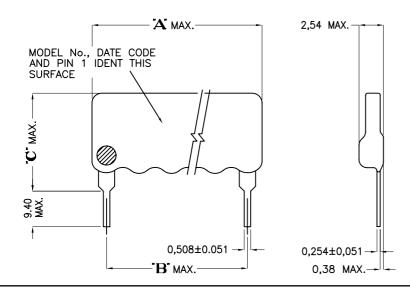
Bi technologies

Model BHV



OUTLINE DIMENSIONS (mm)

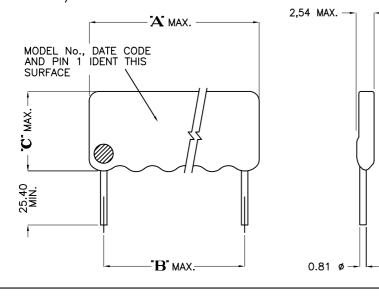
BHVXXRF/PF



MODEL	VOLTAGE MAX	A	В	C
BHV10RF/PF	10kV	24.2	20.32	10.16 MAX.
BHV15RF/PF	15kV	29.3	25.40	12.70 MAX.
BHV20RF/PF	20kV	37.6	33.02	15.24 MAX.
BHV30RF/PF	30kV	59.7	50.80	15.24 MAX.

'RF' MODELS ARE EPOXY RESIN DIPPED 'PF' MODELS ARE POLYMER PRINT PROTECTED.

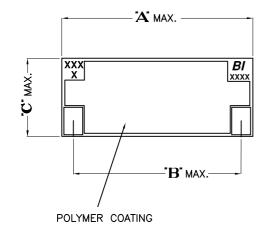
BHVXXRW/PW

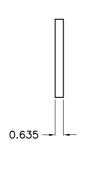


MODEL	VOLTAGE MAX	A	В	C
BHV10RW/PW	10kV	24.2	20.32	10.16 MAX.
BHV15RW/PW	15kV	29.3	25.40	12.70 MAX.
BHV20RW/PW	20kV	37.6	33.02	15.24 MAX.
BHV30RW/PW	30kV	59.7	50.80	15.24 MAX.

'RW' MODELS ARE EPOXY RESIN DIPPED 'PW' MODELS ARE POLYMER PRINT PROTECTED.

BHVXXRS





MODEL	VOLTAGE MAX	A	В	C
BHV10RS	10kV	22.86	20.32	7.62 MAX.
BHV15RS	15kV	27.94	25.40	10.16 MAX.
BHV20RS	20kV	36.32	33.02	12.70 MAX.
BHV30RS	30kV	58.42	50.80	12.70 MAX.

SCHEMATIC - ALL MODELS

