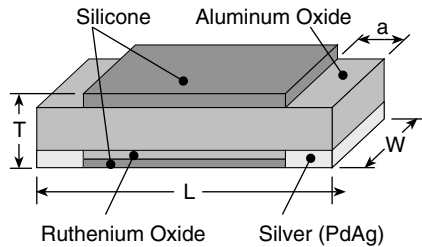


HVF Series



High Voltage Flip Chip Film Resistors



Ohmite's High Voltage Flip Chip Series incorporates high accuracy screen printing technology to achieve high voltage capability in a stable flip chip SMD chip resistor package. The HVF Series offers unmatched performance in comparison to standard chip resistors. Its unique design provides lower voltage and temperature coefficients, less noise, tighter tolerances, better stability, higher resistance values, and higher voltage ratings. HVF is available in convenient 1206 and 2512 footprints.

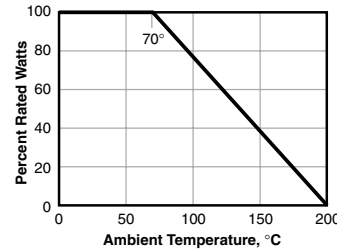
FEATURES

- High voltage up to 3,000 volts
- Industry standard sizes
- Working temperature range -55°C to 200°C
- Designed for automatic insertion

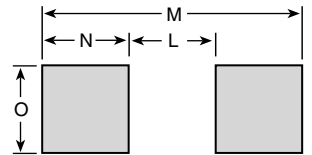
SPECIFICATIONS

- Resistance Range:** 1KΩ to 100GΩ
- Resistance Tolerance:** ±1% std.
- Temperature Coefficient:** ±100ppm std.
- Coating:** Silicone
- Solder Pad Material:** Silver (PdAg)

DERATING



LAND PATTERN (in.)



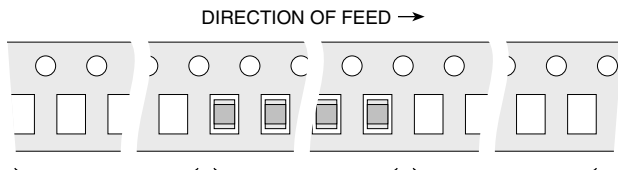
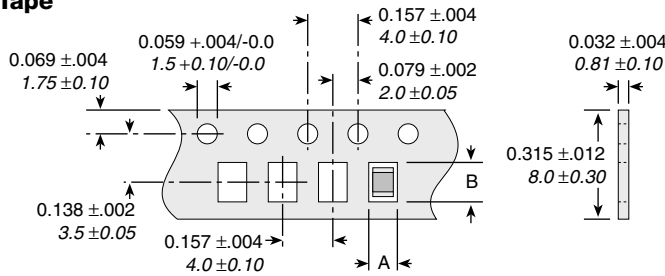
Size	M	N	O	L
HVF1206	0.180	0.040	0.080	0.100
HVF2512	0.346	0.098	0.140	0.150

Series	Resistance Range	Power Rating (mW)	Voltage Rating	Dimensions (in. ±0.008)			
				L	W	a	T (max.)
HVF1206	1K-100G	300	1,500	0.128	0.063	0.018	0.028
HVF2512	1K-100G	1000	3,000	0.252	0.126	0.026	0.032

TAPE AND REEL SPECIFICATIONS

Per EIA Std. RS-481

Tape

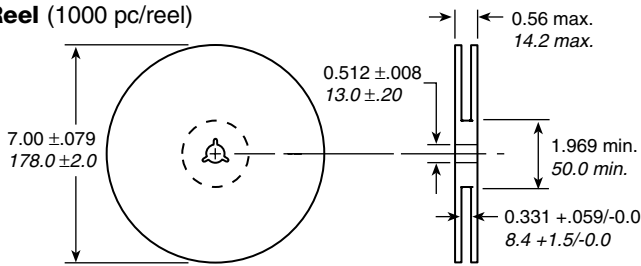


Trailer
230mm min.-560mm max. May consist of carrier and/or cover tape followed by a minimum of 160mm of carrier with sealed cover tape

Components

Leader
Minimum of 40 empty component pockets sealed with cover tape

Reel (1000 pc/reel)



PERFORMANCE DATA

Insulation Resistance	>10,000 MΩ	500 Volt 25 °C 75% relative humidity
Dielectric Strength	>1,000 Volt	25 °C 75% relative humidity
Thermal Shock	Δ R/R < 0.1% typ., 0.50% max.	MIL Std. 202, method 107 Cond. C (IEC 68 -2 -14)
Overload	Δ R/R < 0.1% typ., 0.50% max.	1.5 x Pnom, 5 sec (do not exceed max. voltage)
Moisture Resistance	Δ R/R < 0.1% typ., 0.50% max.	MIL Std. 202, method 106 (IEC 68 -2 -3)
Load Life	Δ R/R < 0.1% typ., 0.50% max.	1000 hours at rated power (IEC 115 -1)

VOLTAGE COEFFICIENT OF RESISTANCE

Series	Resistance Range	VCR (-ppm/V)*
1206	1K ..10MΩ	<3.20
	10M ..100MΩ	<15.00
	100M ..1GΩ	<29.00
	1GΩ .. 5GΩ	<40.00
2512	1K ..30MΩ	<0.80
	30M ..300MΩ	<4.00
	300M ..3GΩ	<7.00
	3GΩ .. 5GΩ	<10.00

*Typical values. Voltage coefficient of resistance strongly depends on the resistance value. Consult factory for details.

ORDERING INFORMATION

HVF1206T1004JET

High Voltage Flip Chip Series	Case Size 1206 2512	TCR T = 100 ppm V = 50 ppm W = 25 ppm Y = 10 ppm Z = 5 ppm	Ohms First 3 digits are significant; last digit specifies number of zeros to follow. Example: 1006 = 100MΩ	Tolerance F = 1% G = 2% J = 5%
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RoHS Compliant
Taping Code
blank = bulk package
T = tape & reel