

High-Voltage Resistors

High-Voltage Flat Style Resistors Series FPX and FLX

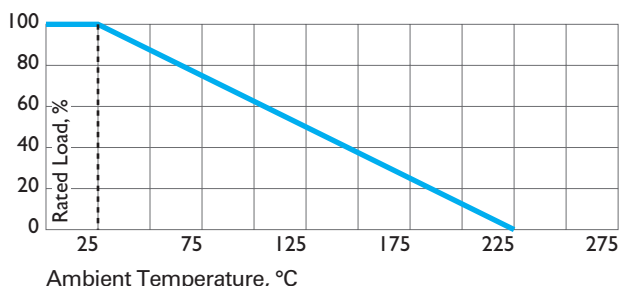
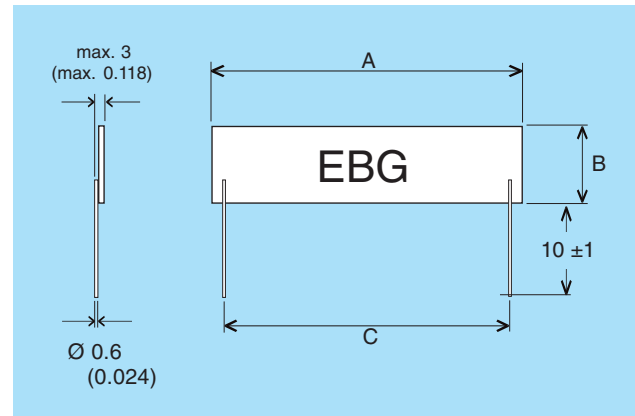
TC of 100 ppm/°C combined with precision tolerances (0.5%–10%) and wide ohmic range

Low-cost power resistors that provide high-density packaging in large volume applications.

- Series FPX and FLX printed on surface with silicone conformal black coating for high-temperature operation (225°C)
- High voltage withstanding up to 16,500 V
- Five different sizes
- Thickness max. 3 mm (0.118 inch) for high-density packaging
- Non-Inductive Design

Specifications

- Resistance range: FPX: 200 Ω to 2 GΩ, FLX: 10Ω to 1 GW
- Resistance tolerance: FPX: ±1% to 10%, FLX: ±0.5% to 10%
- Temperature coefficient: ±100 ppm/°C, measured at +85°C, referenced to +25°C (other TCR or temperatures on request)
- Voltage coefficient (typically): Resistance range – ppm/V
200 R – 1 M: 0.1–1.0, 1 M – 100 M: 0.2–3.0, 100 M – 2,000 M: 0.5–10.0
- Max. operating voltage: "S"; upon request up to 35% higher than listed
- Standard storage conditions: 0 to 85°C at 80% RH max. for min. 12 months. For different conditions please contact your local EBG representative!



Model no.	Wattage	Max. continuous oper. Volt	Dimensions in millimeters		
			Dimensions in inches		
			A (max.) ±0.50 ±0.02	B (max.) ±0.50 ±0.02	C ±0.50 ±0.02
Series FPX with Surface Silicone Print					
FPX1/2	1.50	3,000*	12.90 0.51	3.40 0.13	10.20 0.40
FPX8/5	2.50	6,000*	25.60 1.01	5.30 0.21	22.90 0.90
FPX3	4.00	9,000*	38.30 1.51	6.60 0.26	35.50 1.40
FPX4	5.00	11,500*	51.00 2.01	6.60 0.26	48.20 1.90
FPX2/2	7.50	16,500*	51.00 2.01	12.90 0.51	48.20 1.90
Series FLX with Conformal Silicone Protection					
FLX1/2	1.50	300	12.90 0.51	3.40 0.13	10.20 0.40
FLX8/5	2.50	500	25.60 1.01	5.30 0.21	22.90 0.90
FLX3	4.00	800	38.30 1.51	6.60 0.26	35.50 1.40
FLX4	5.00	1,000	51.00 2.01	6.60 0.26	48.20 1.90
FLX2/2	7.50	1,000	51.00 2.01	12.90 0.51	48.20 1.90

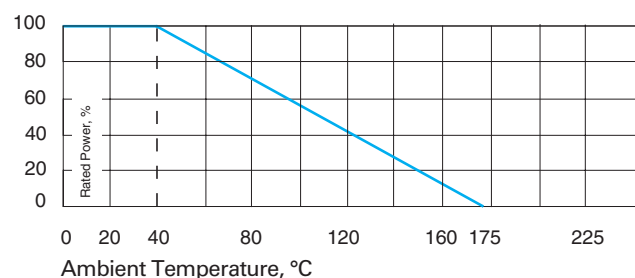
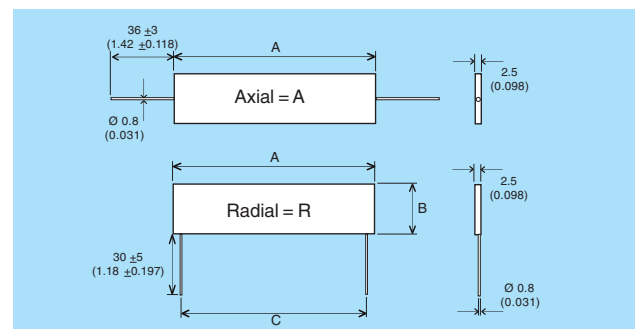
* when used in clean air

High-Voltage Flat Style Resistors Series MTX 967

Type	PWatt	UkvDC	A	B	C
967.3.25	1	8	25.4	3.8	22.9
967.3.38	1.5	10	38	3.8	35.7
967.5.13*	1	5	12.7	5	10.2
967.5.51	2	20	50.8	5	48.3
967.10.25	2	10	25.4	10	22.9
967.10.51	3	30	50.8	10	48.3
967.15.38	3	15	38	15	35.7
967.15.51	4.5	30	50.8	15	48.3
967.15.76	5.5	35	76.2	15	73.4
967.25.99	10	35	101.6	24	98.6

* Pins: L = 9 + 1mm $\square = 0.6 \times 0.35\text{mm}$

- Operating temperature: -55 to +175°C
- Resistance range: 10 Ω to 30 GΩ (depending on type)
- Temperature coefficient: ±10 to ±200 ppm/°C measured at +85°C, referenced to +25°C (other TCR or temperatures on request)
- Tolerance: ±10% to ±0.1%
- Insulation resistance: >10,000 MΩ (500 V, 25°C, 75% relative humidity)
- Dielectric strength: >1000 V (25°C, 75% relative humidity)
- Thermal shock: ΔR/R 0.2% max
- Overload: ΔR/R 0.25% max 1.5 x Pnom, 5 sec (do not exceed 1.5 x V max.)
- Moisture resistance: ΔR/R 0.25% max.
- Load life: ΔR/R 0.25% max.
- Encapsulation: silicone conformal (other coatings with different dielectric strengths upon request!)
- Lead material: tinned copper



The above spec. sheet features our standard products. For further options, please contact our local EBG representative or contact us directly. For updated information, please visit our website!