

Series FBX / FSX

TC of ±80 ppm/°C combined with precision tolerances and wide ohmic range

 $200 \ \Omega \leq 2 \ G\Omega$

ohmic values

higher values on special request

 $\pm 0.5~\%$ to $\pm 10~\%$ down to $\pm 0.1~\%$ on special request for limited

 \leq 100 MΩ: ±80 ppm/°C standard > 100 MΩ: ±150 ppm/°C standard from -5°C to +105°C referenced to +25°C;

down to 15ppm/°C on special request for limited ohmic value

depending on model no. (ask for details)

FBX/FSX: -55°C to +225°C

see VCR-chart below,

for FBX-6/5 ask for details

Low-cost, high-voltage resistors that provide high-density packaging in large volume applictions.

Features

- up to 29 kV operating voltage
- Non-Inductive design
- ROHS compliant
- Standard contact lead diameter 0.6 mm. Others available on special request or no lead version for SMD mounting

Resistance value

Resistance tolerance

Temperature coefficient

Max. operating temperature

Voltage coefficient

Weight

- On request custom designed version available, max. ceramic size substrates 101.6 mm (4 inch)
- Voltages up to 35% higher than the values listed "S"-Version

Technical Specifications



Different coatings available:

- Series FBX: with surface silicone print as an inexpensive alternative
- Series FSX: silicone conformal for hightempearture operations (225°C)

Other coating options such as glass, 2xpolyimide, UV cured, on special request

Model Specifications

Series FBX with Surface Silicone Print

Model no.	Wattage at +25°C	Max. continuous operating voltage	Dimensions in millimeters (inches)		
			A ±0.50 (max.) ±0.02	B ±0.50 (max.) ±0.02	C ±0.50 ±0.02
FBX 1/2	0.50	3,000*	12.90 (0.51)	3.40 (0.13)	10.20 (0.40)
FBX 5/5	0.65	4,500*	17.15 (0.68)	3.40 (0.13)	15.24 (0.60)
FBX 6/5	1.20	5,000*	20.00 (0.98)	5.08 (0.20)	17.78 (0.70)
FBX 8/5	1.60	6,000*	25.60 (1.01)	5.30 (0.21)	22.90 (0.90)
FBX 3	3.00	9,000*	38.30 (1.51)	6.60 (0.26)	35.50 (1.40)
FBX 4	4.00	11,500*	51.00 (2.01)	6.60 (0.26)	48.20 (1.90)
FBX 2/2	5.00	16,500*	51.00 (2.01)	12.90 (0.51)	48.20 (1.90)
					*when used in clean air

Series FSX with Conformal Silicone Protection

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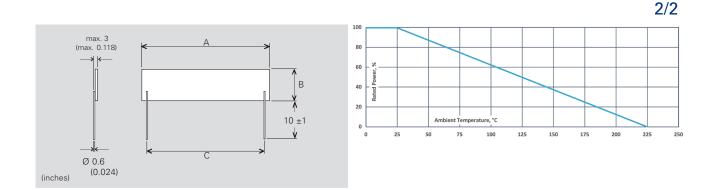
Model no.	Wattage at +25°C	Max. continuous —	Dimensions in millimeters (inches)		
			A ±1.00 (max.) ±0.04	B ±1.00 (max.) ±0.04	C ±0.50 ±0.02
FSX 1/2	0.50	4,000	13.60 (0.54)	4.50 (0.18)	10.20 (0.40)
FSX 5/5	0.65	6,000	17.85 (0.70)	4.50 (0.18)	15.24 (0.60)
FSX 8/5	1.60	8,000	25.90 (1.02)	6.30 (0.25)	22.90 (0.90)
FSX 3	3.00	12,000	38.70 (1.52)	7.50 (0.30)	35.50 (1.40)
FSX 4	4.00	15,000	51.30 (2.02)	7.50 (0.30)	48.20 (1.90)
FSX 2/2	5.00	22,000	51.30 (2.02)	14.20 (0.56)	48.20 (1.90)

The above spec. sheet features our standard products. For further options please contact your local Miba Resistors representative

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Series FBX / FSX



How to make a request

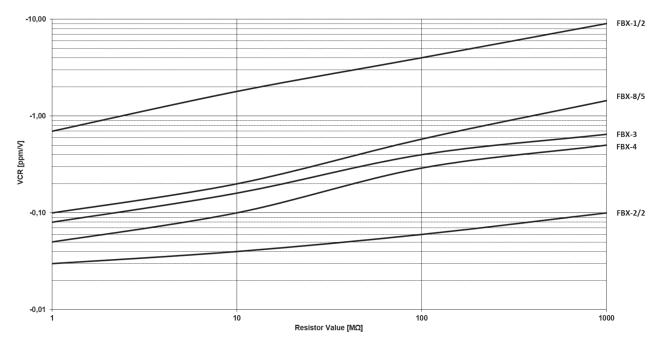
Model no._Ohmic value_Tolerance_TCR

For example: FBX-4 300K 1% 80ppm or FSX-8/5 10M 1% 25ppm

Example for higher voltage:

FSX-8/5-S 33M 1% 50ppm

Typical Voltage Coefficient for FBX series (in ppm per volt)



Example:

FBX-2/2 with 100 M Ω has a typical voltage coefficient of -0.06 ppm/V.

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