Series OSX / SSX / SOX

RESISTORS

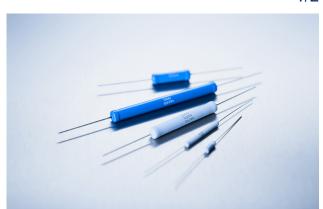
A Miba Group Company

Power- and Precision High-Voltage Resistors TC of ±100 ppm/°C and wide ohmic range

The OSX/SSX/SOX series meets a general set of requirements. The products are available with a silicone or epoxy coating and feature a wide range of tolerances and temperature coefficients.

Features

- up to 60 kV operating voltage
- Non-Inductive design
- ROHS compliant
- Full encapsulation over the entire resistor length
- All SSX types are available with M4 or 6/32 screw end caps



Technical Specifications

Resistance value	$100~\Omega \leq 50~G\Omega$ (see model specifications page 2) higher values on special request			
Resistance tolerance	±1 % to ±10 % standard ±0.1 % to ±0.5 % on special request for limited ohmic values*			
Temperature coefficient	100 ppm/°C standard (+85°C ref. to +25°C) down to ±5 ppm/°C on special request for limited ohmic values and tolerances			
Max. working voltage	see model specifications page 2			
Power Rating	up to 19.40 W (see model specifications page 2)			
Dielectric strength	≤ 10 kV DC based on the coating			
Load life stability	1,000 hours at rated power at 70°C, ΔR 0.20 % max.			
Moisture resistance	MIL-Std-202, method 106, ΔR 0.4 % max.			
Thermal shock	MIL-Std-202, method 107, Cond. A, ΔR 0.20 % max.			
Encapsulation	silicone or epoxy coating standard coatings: silicone or epoxy coating we recommend 2xpolyimide coating for use in oil and potted applications (ask for details)			
Other terminals avaiblabe	screw end caps (6/32", M4, custom), golden leads with diameter 0,8 mm availabe for SSX / SOX series (ask for details)			
Lead material	OFHC copper, tin-plated			
Weight	depending on model no. (ask for details)			

^{*} In case of very tight tolerances ($\pm 0.1~\%$ to $\pm 0.5~\%$) we suggest not to use the full power rating, but rather the next larger size to achieve ultimate stability (contact us for details)

Different coatings available:

- Silicone coating for ambient temperatures up to 225°C
- Epoxy coating for excellent humidity protection available under the model no. SOX
- Polyimide for excellent protection for use in oil and potted applications but with reduced dielectric strength

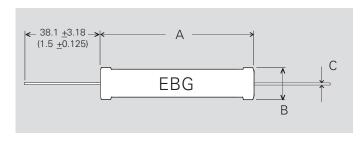
How to make an order

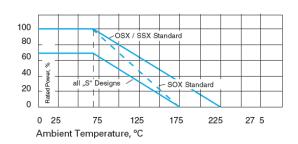
Model no._Ohmic Value_Tolerance

OSX-39 100M 0.5% or SOX-52 220M 1%

Example for higher working voltage: SSX-39-S 20M 1%

Dimensions in mm [inches]





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Series OSX / SSX / SOX



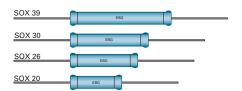
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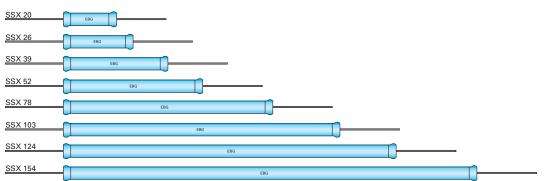
Model Specifications

	Wattage Ma at 70°C kV	Max	ax. Max. V "S" **	Resistance values		Dimensi	Dimensions in millimeters (inches)		
Model no.		kV		Min. Ω	Max. Ω	A ±0.50 ±0.02	B ±0.50 ±0.02	C ±0.50 ±0.02	
OSX-10	0.80	1.5	1.9	100	1 G	10.80 (0.425)	4.00 (0.157)	0.60 (0.024)	
OSX-13	1.00	1.5	1.9	100	5 G	13.40 (0.528)	4.00 (0.157))	0.60 (0.024)	
OSX-20	1.50	3.0	3.7	100	10 G	19.70 (0.776)	4.00 (0.157)	0.60 (0.024)	
OSX-26	1.95	4.0	5.0	100	10 G	26.00 (1.024)	4.00 (0.157)	0.60 (0.024)	
OSX-30	2.30	6.0	7.5	100	10 G	32.40 (1.276)	4.00 (0.157)	0.60 (0.024)	
OSX-39	3.10	6.0	7.5	100	10 G	39.40 (1.551)	4.00 (0.157)	0.60 (0.024)	
SOX-20	1.20	5.0	6.2	300	10 G	21.30 (0.839)	8.60 (0.339)	1.00 (0.040)	
SOX-26	1.60	7.5	9.4	450	10 G	27.50 (1.083)	8.60 (0.339)	1.00 (0.040)	
SOX-39	2.50	11.0	13.8	500	10 G	40.20 (1.583)	8.60 (0.339)	1.00 (0.040)	
SOX-52	3.40	16.0	20.0	400	10 G	52.50 (2.067)	8.60 (0.339)	1.00 (0.040)	
SOX-78	5.00	24.0	30.0	600	10 G	78.70 (3.098)	8.60 (0.339)	1.00 (0.040)	
SOX-103	6.50	32.0	40.0	800	10 G	104.10 (4.098)	8.60 (0.339)	1.00 (0.040)	
SOX-124	8.20	40.0	50.0	1 M	10 G	124.20 (4.890)	8.60 (0.339)	1.00 (0.040)	
SOX-154	10.60	48.0	60.0	1 M	10 G	154.50 (6.083)	8.60 (0.339)	1.00 (0.040)	
00V 00	0.00	F 0		600	10.0	20.20	8.20	1.00	
SSX-20	2.30	5.0	6.2		10 G	(0.795)	(0.323)	(0.040) 1.00	
SSX-26	3.90	7.5	9.4	600	10 G	27.20 (1.071)	8.20 (0.323)	(0.040)	
SSX-32	4.20	8.5	11.0	550	10 G	33.00 (0.323)	8.20 (0.323)	1.00 (0.040)	
SSX-39	4.60	11.0	13.8	500	25 G***	39.50 (1.555)	8.20 (0.323)	1.00 (0.040)	
SSX-52	7.80	16.0	20.0	400	25 G***	52.00 (2.047)	8.20 (0.323)	1.00 (0.040)	
SSX-78	11.70	24.0	30.0	600	50 G***	77.60 (3.055)	8.20 (0.323)	1.00 (0.040)	
SSX-103	12.50	32.0	40.0	800	50 G***	103.20 (4.063)	8.20 (0.323)	1.00 (0.040)	
SSX-124	15.50	40.0	50.0	1 M	50 G***	123.70 (4.870)	8.20 (0.323)	1.00 (0.040)	
SSX-154	19.40	48.0	60.0	1 M	50 G***	153.70 (6.051)	8.20 (0.323)	1.00 (0.040)	

SOX series overview



SSX series overview



The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.

 $^{^{\}star\star}$ Our resistors are designed for operation in air and nonaggressive atmosphere. For special applications like oil, casting, molding, SF6, etc., please contact us.

^{***} higher ohmic values on special request (ask for details)