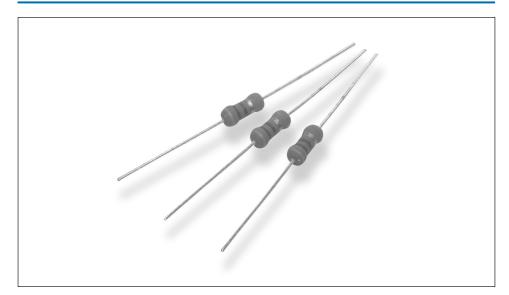


_ _ .

Key Features

- High Power with Small Size for Space Saving
- Excellent Long Term Stability
- Complete Flameproof Construction
- High Surge/Overload Capability
- Controlled Temperature Capability
- Solvent Resistant Coat and Code
- Special Lead Formations Possible

Type ROX Series



The resistive element comprises a metal oxide film deposited on a ceramic former. The element is protected by a flameproof coating which will withstand overload conditions without flame or mechanical damage. They are recommended for use in applications such as line protection etc...

Characteristics - Electrical

	ROXO5	ROX1	ROX2	ROXO5S	ROX1SS	ROX1S	ROX2S	ROX3S	ROX5S
Rated Power @ 70°C (W):	0.5	1	2	0.5	1	1	2	3	5
Resistance Range (ohms) Min:	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Max:	330K	470K	560K	100K	200R	270K	470K	560K	560K
Tolerance and Code Letter:	2% (G) / 5% (J) 1% (F) available on request								
Temp. Coefficient Max (ppm/°C):					± 350				
Selection Series:					E24				
Limiting Element Voltage (V):	250	350	350	250	350	350	350	350	500
Maximum Overload Voltage (V):	400	600	600	400	400	600	600	600	800
Max Intermittent Overload Voltage (V):	500	750	750	500	500	750	750	750	1500
Operating Temp. Range (°C):	-55 to +155								
Climatic Category:	55/155/42								
Dielectric Strength (V):	250	350	350	250	350	350	350	350	500
Insulation Resistance (Mohms):					1,000				

Mounting

The resistors are suitable for processing on automatic insertion equipment and cutting and bending machines.

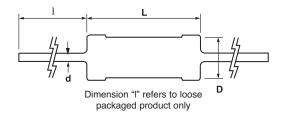
Marking

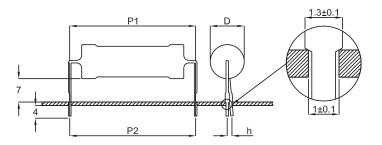
The resistors are marked with a four-band colour code in accordance with IEC 62. Grey base colour for Standard Range, Sea Blue colour for "S" Range.



Type ROX Series

Dimensions





Standard Range Leaded

Style	D max	L Max	I+/-3	d+/-0.05
ROX05	3.5	10	28	0.54
ROX1	5	12	25	0.7
ROX2	5.5	16	28	0.7

"S" Range Leaded

Style	D max	L Max	I+/-3	d+/-0.05
ROX05S	2.5	7.5	28	0.54
ROX1SS	2.5	7.5	28	0.54
ROX1S	3.5	10	28	0.7
ROX2S	5	12	25	0.7
ROX3S	5.5	16	28	0.7
ROX5S	8	25	38	0.75

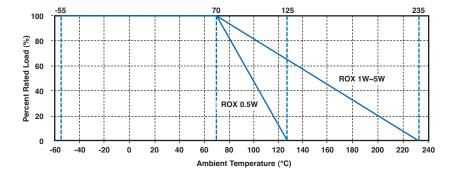
Standard Range Pre-formed

Style	P1 ±0.5	P2 ±2	H1	H2	h max
ROXO5	12.5	12.5	7.5 ±1.5	3.5 ±1	2.0
ROX1	15	15	7.5 ±1.5	3.5 ±1	2.0
ROX2	20	20	7.5 ±2.0	3.5 ±1	3.0

"S" Range Pre-formed

Style	P1 ±0.5	P2 ±2	H1	H2	h max
ROXO5S	10	10	7.5 ±1.5	3.5 ±1	2.0
ROX1SS	10	10	7.5 ±1.5	3.5 ±1	2.0
ROX1S	12.5	12.5	7.5 ±0.5	3.5 ±1	2.0
ROX2S	15	15	7.5 ±1.5	3.5 ±1	2.9
ROX3S	20	20	7.5 ±2.0	3.5 ±1	3.0
ROX5S	30	30	7.5 ±2.0	3.5 ±1	3.0

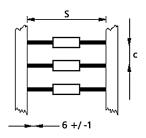
Power Derating Curve





Type ROX Series

Packaging



New Style Reference	Quantity per Ammo Pack	Std tape Spacing *S ±1	Component Spacing c ±0.5
ROX05	2,000	52	5
ROX1	1,000	52	5
ROX2	1,000	63	10
ROX05S	2,000	52	5
ROX1SS	2,000	52	5
ROX1S	2,000	52	5
ROX2S	1,000	52	5
ROX3S	1,000	63	10
ROX5S	500	63	10

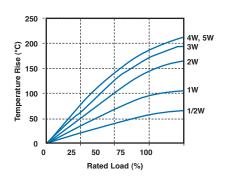
^{*} Other tape spacings available on request Other packaging styles are available on request

Performance Characteristics

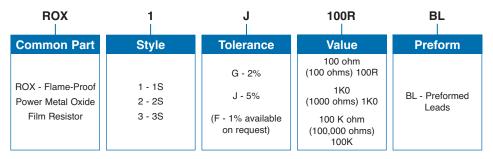
The evaluation of the performance characteristics is carried out with reference to IEC Specifications QC 400 000 and QC 400 100.

TEST REF	Long Term Tests ± (5% + 0.1 ohm)	
4.23	Climatic sequence	
4.24	Damp heat, steady state	
4.25.1	Endurance at 70°C	
4.25.3	Endurance at 235°C	
TEST REF	Short Term Tests ± (1% + 0.05 ohm)	
4.13	Overload	
4.16	Robustness of terminations	
4.18	Resistance to soldering heat	
4.19	Rapid change of temperature	
4.22	Vibration	

Heat Rise Chart



How to Order



TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks.

Other logos, product and Company names mentioned herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Metal Oxide Resistors category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

009260C FA87/180R/5% ROX1SJ4R7 R0229 M012CT52R220J WK80922003900J5C00 434529B WMO5S-100KJA05 ROX1SJ12K ROX1SJ270K 054084X 054211G 054220E 095734G RS02B887R0FE73 RSS2W470RJTB RSS3470RJTB ROX3SJR22 WR404140A2208JFE00 RSS551KJ RSS3150RJTB ROX5SJ39K MOSX1CT528R2R20F MHR0314SA207F70 RSF-25JT-52-120R RSF50SJT-52-330K RSF2WSJT-52-60R RSF-25JT-52-2M RSF50SJT-52-1M RSF100JT-52-360K RSF50SJT-52-22R RSF50SJT-52-15R RSF200JT-73-280R RSF50SJT-52-0R5 RSF-25JT-52-1M2 RSF200JT-73-0R2 RSF-50JT-52-2K5 MO1W-150R±5%-TT63 MO3W-200R±5%-9T73 ROX2SJ4K3 ROX5SJ120R ROX3SJR10 ROX2SJ200K CPF2200R00JKRE6 LVR01R0200FE73 HR1206J47RP05 HR1206J1MP05 HR1206F430KP05 HR1206F680KP05 HR1206J100RP05