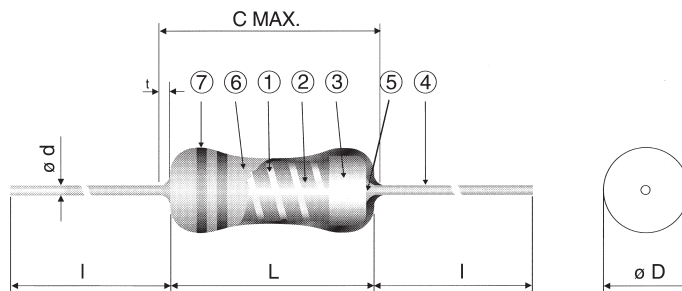
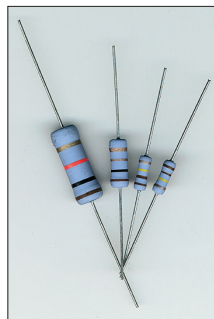


METAL OXIDE STANDARD MO • MOX



STRUCTURE

- 1 Ceramic core
- 2 MO= trimmed metal oxide
MOX= trimmed metal film
- 3 Steel cap (Su, Sn plated)
- 4 Lead wire
- 5 Welding joint
- 6 Flame retardant insulation coating
- 7 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
MO MOX	Blue grey	Color Code (R-value and tolerance)

All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

MOX	2	C	T631	A	1R0	J	Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS
PRODUCT CODE MO MOX	POWER RATING Unit: Watt 1/2... 3	TERMINATION SURFACE MATERIAL C: SnCu	TAPING & FORMING	PACKAGING A: Ammo R: Reel *Blank = Bulk *Please see "PACKAGING"	NOMINAL RESISTANCE 3 digits	RESISTANCE TOLERANCE G: (±2%) J: (±5%)	

FEATURES

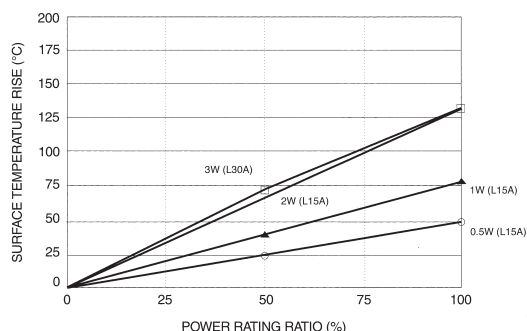
- General purpose power type resistors
- Flame retardant coating (Equivalent to UL94 V-0)
- Automatic insertion is applicable
- Various formings are available
- High reliability for performance
- MO= metal oxide film
- MOX= metal film
- Meets or exceeds IEC 60 115-4, JIS C 5201-4, EIAJ RC-2138
- Rated ambient temperature: +70°C
- Operating temperature range: -55°C... +200°C

DIMENSIONS (mm)

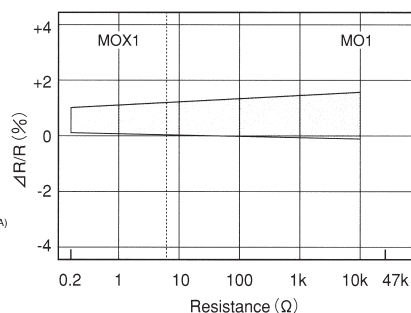
TYPE	L±1	C Max.	ø D	ø d (nom.)	L*
MO(X) 1/2	9.0	11.1	3.2±0.5	0.70	24 Min.
MO(X) 1	12.0	15.0	4.0±0.5		
MO(X) 2	15.5	18.0	6.0±1.0	0.80	30±3
MO(X) 3	24.5	28.0	9.0±1.0		38±3

*Lead length changes depending on taping and forming type.

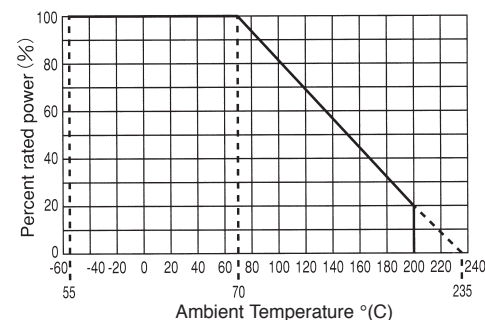
SURFACE TEMPERATURE RISE



LOAD LIFE AT 70°C/1000h



DERATING CURVE



RATING

DIN SIZE	TYPE	T.C.R. (ppm/K)	POWER RATING*	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	RESISTANCE RANGE • E24	
							G (±2%)	J (±5%)
0411	MO 1/2	±200	0.5 W	250V	400V	400V	10Ω...47kΩ	10Ω...47kΩ
0414	MO 1		1 W	350V	600V			
0617	MO 2		2 W			500V	10Ω...100kΩ	10Ω...120kΩ
0922	MO 3		3 W	500V	800V			10Ω...150kΩ
0411	MOX 1/2		0.5 W			400V		
0414	MOX 1		1 W					
0617	MOX 2		2 W	$E = \sqrt{P \times R}$	E x 2.5	500V	5.1Ω...9.1Ω	0.2Ω...9.1Ω
0922	MOX 3		3 W					

*For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated in accordance with the above derating curve.

Rated voltage = $\sqrt{\text{Power rating} \times \text{resistance value}}$ or max. working voltage, whichever is lower.