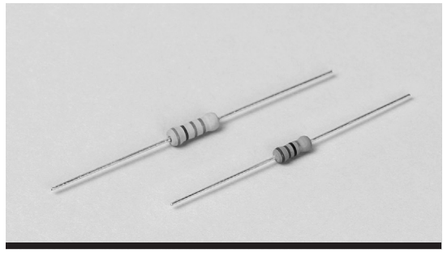
FN/FNS

Fusible Resister / Fusible Resistor Small Type

RoHS HF

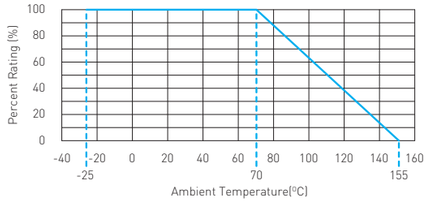


FN,FNS are fusible metal film resistors. These resistor have same characters of general resistors, but when is applied an over electric current prescribed, these is fused and the current. FNS is small type and suitable to be minimized space in the circuit

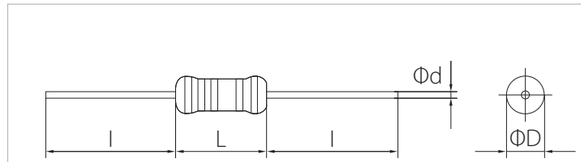
● Features

-Function as resistor in normal condition.
-Quick open at an excessive over load.
-Safe without flaming due to flame proof coating.
-High reliability for performance.

● Derating Curve



● Dimension



Type		Dimension (mm)			
		L	ΦD	l	Φd
FN1/4W	FNS1/2W	5.8 ± 0.5	2.3 ± 0.2	27.0 ± 3.0	0.55 ± 0.02
FN1/2W	FNS1W	8.5 ± 1.0	3.0 ± 0.5	26.0 ± 3.0	0.70 ± 0.02
FN1W	FNS2W	11.0 ± 1.0	4.0 ± 0.5	28.0 ± 3.0	0.80 ± 0.02
FN 2W		15.0 ± 1.0	5.5 ± 0.5	28.0 ± 3.0	0.80 ± 0.02

● Type Designation

FN	01	T1	4R7 0	J
Products Code	Power Rating	Style	Nominal Resistance	Resistance Tolerance
FN : Normal Type FNS : Small Type	94 : 1/4W 92 : 1/2W 01 : 1W 02 : 2W	T- : Axial Type F-/L- : Forming Type	1R00 : 1Ω 10R0 : 10Ω 1K00 : 1KΩ	G : ±2% J : ±5% K : ±10%

● Rating & Shape

Type		Max. Working Voltage (V)	Dielectric Withstanding Voltage (V)	Range (Ω)	Resistance Tolerance (%)	Operating Temp. Range (℃)	Ambient Temp. (℃)	Axial Type		Punching Type	
								52mm	63mm	F-	L-
FN1/4W	FNS1/2W	200	200	0.47~1K	G : ±2 J : ±5 K : ±10	-25~+155	70	O	-	O	-
FN1/2W	FNS1W	250	250					O	-	O	O
FN1W	FNS2W	350	350					-	O	O	O
FN 2W								-	O	O	O

● Performance

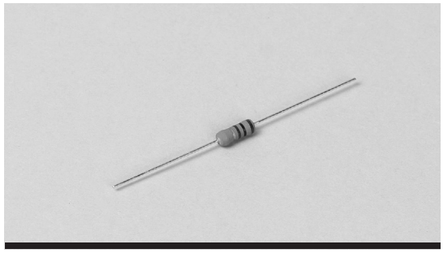
Test Items	Performance Requirements	Test Methods
Resistance	With specified tolerance	Measure resistance at 25℃
T.C.R	Within ± 350PPM/℃	+25℃/+125℃
Short Time Overload	±[2%+0.05Ω]	Rated voltage ×2.5 for 5sec or Max overload voltage
Resistance Against Soldering Test	±[2%+0.05Ω]	260±5℃,2~2.5mm,10±1sec measure resistance After1hr at room temp
Load Life in Moisture	±[5%+0.1Ω]	40±2℃,90~95%RH,1.5hr ON/0.5hr OFF cycle,1,000hr
Load Life in Temperature	±[5%+0.1Ω]	70±2℃,1.5hr ON/0.5hr OFF cycle,1,000hr
Open	1.Residual resistance 100 times normal resistance 2.ARC discharge must not arise 3.Maximum electric current must be below twice	Resistance range : 0.47~1.0Ω Rated power×25 – 1~30sec[FN1/4W ALL] Resistance range : Over 1.1Ω Rated power×16 – 1~60sec

Specification given here in may be changed at any time without prior notice. Please confirm technical specifications before you order or use.

RSD

Metal Oxide Film Resistor

RoHS HF

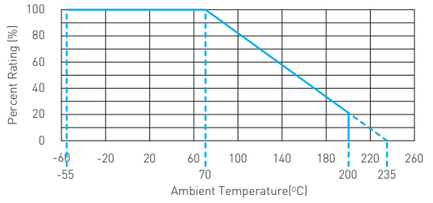


Metal Oxide Resistor is manufactured through the rationalized automation line and high quality control system. Flame proof type of the metal oxide film resistor is available from 1/2W to 3W. They are ideally suitable for power circuit use.

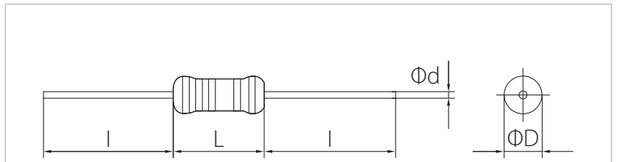
● Features

-Small size power type resistor.
-Excellent thermal stability at a high temperature.
-Flame proof coating.
-Various types of forming are available.
-High reliability.
-Product with lead free meet RoHS requirements.

● Derating Curve



● Dimension



Type	Dimension (mm)			
	L	ΦD	l	Φd
RSD 1/2W	5.8 ± 0.5	2.3 ± 0.2	27.0 ± 3.0	0.55 ± 0.02
RSD 1W	8.5 ± 1.0	3.0 ± 0.5	26.0 ± 3.0	0.70 ± 0.02
RSD 2W	12.0 ± 1.0	4.0 ± 0.5	28.0 ± 3.0	0.80 ± 0.02
RSD 3W	15.0 ± 1.0	5.5 ± 0.5	28.0 ± 3.0	0.80 ± 0.02

● Type Designation

RSD	02	T3	10K0	J
Products Code	Power Rating	Style	Nominal Resistance	Resistance Tolerance
	92 : 1/2W 01 : 1W 02 : 2W 03 : 3W	T- : Axial Type F-/L- : Punching Type R-/M- : Forming Type	1R00 : 1Ω 10R0 : 10Ω 10K0 : 10KΩ 100k : 100KΩ	G : ±2% J : ±5%

● Rating & Shape

Type	Max. Working Voltage (V)	Max. Overload Voltage (V)	Dielectric Withstanding Voltage (V)	Range(Ω)	Resistance Tolerance(%)	Operating Temp. Range (℃)	Ambient Temp. (℃)	Axial Type		Punching Type		Forming Type	
								52mm	63mm	F-	L-	R-	M-
1/2W	250	400	350	10~68K	G : ±2 J : ±5	-55~+200	70	O	-	O	O	O	O
1W	350	600	500	0.47~220K				O	-	O	O	O	O
2W				0.47~270K				-	O	O	O	O	O
3W	550	800		0.47~270K				-	O	O	O	-	O

● Performance

Test Items	Performance Requirements	Test Methods
Resistance	Within specified tolerance	Measure resistance at 25℃
T.C.R	Within ±350PPM/℃	+25℃/+125℃
Short Time Overload	±[2%+0.1Ω]	Rated voltage ×2.5 for 5sec or Max overload voltage
Resistance Against Soldering Test	±[2%+0.05Ω]	260 ± 5℃, 2~2.5mm, 10 ± 1sec measure resistance After 1hr at room temp
Load Life in Moisture	±[5%+0.1Ω]	40 ± 2℃ 90~95%RH, 1.5hr ON/0.5 OFF cycle, 1,000hr
Load Life in Temperature	±[5%+0.1Ω]	70 ± 2℃, 1.5hr ON/0.5 OFF cycle, 1,000hr

Specification given here in may be changed at any time without prior notice. Please confirm technical specifications before you order or use.

Resistor