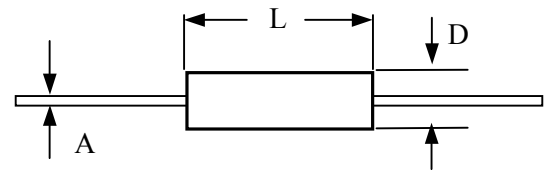




Precision Resistors

Precision Metal Film Resistor - NE Series / 精密金属膜电阻

- Token NE Series meets MIL-PRF-55182 and GJB244A-2001 quality standards
- Moulding Type
- High reliability
- Excellent stability
- Ultra precision
- Low temperature coefficient PPM.
- Caps range of ultra low resistance.

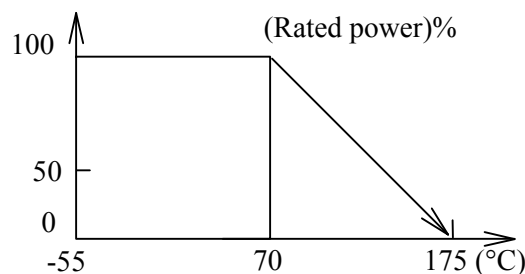


► Precision Metal Film Resistor Technical Characteristics

Type		NE1/10	NE1/8	NE1/4	NE1/2
Rated Wattage (W)	70 °C	0.25	0.5	0.75	1.0
	125 °C	0.10	0.125	0.25	0.5
Resistance Range (Ω)		0.05 ~ 10	0.05 ~ 10	0.025 ~ 10	0.025 ~ 10
Dimensions (mm)	L ± 0.3	6.80	10.2	14.5	18.4
	D ± 0.4	2.50	3.80	4.50	6.50
	A ± 0.05	0.60	0.60	0.60	0.80
Working Temperature Range		-55°C ~ +175°C			
Nominal Resistance Tolerance J(±5.0%) F(±1.0%) D(±0.5%) C(±0.25%) B(±0.10%) A5(±0.05%)		all resistance:J 0.1Ω<R≤0.2Ω:J / F 0.2Ω<R≤0.4Ω:J / F / D 0.4Ω<R≤1.0Ω:J / F / D / C 1Ω<R≤5Ω :J / F / D / C / B 5Ω<R : J / F / D / C / B / A5			
Temperature Coefficient PPM Normal test range (+25°C ~ +85°C)		1Ω≤R≤3Ω: C2(±50PPM/°C), C3(±25PPM/°C) R>3Ω: C2(±50PPM/°C), C3(±25PPM/°C),C5(±15PPM/°C), C6(±10PPM/°C), C7(±5PPM/°C) R<1Ω:No Temperature Coefficient reference			

Remark • Please contact Token's Representatives if your requirement is not in above range.

► Power - Temperature Curve





Precision Resistors

► Periodical Inspection Items and Methods - Precision Metal Film Resistor

Type	Item	Method	Requirement
Long Period	Life time	GJB244A (MIL-PRF-55182) 4.8.18 Rated Wattage, 125°C, 2000h 10000h	GJB244A (MIL-PRF-55182) 3.24 $\Delta R \leq \pm(0.5\%R + 0.01\Omega)$ $\Delta R \leq \pm(2\%R + 0.01\Omega)$
	Humidity	GJB244A (MIL-PRF-55182) 4.8.18 -10°C ~ +65°C, RH < 90% Rated Wattage, Cycle 240h.	GJB244A (MIL-PRF-55182) 3.21 $\Delta R \leq \pm(0.4\%R + 0.01\Omega)$
	High temp exposed	GJB244A 4.8.19 175°C 2000h	GJB244A (MIL-PRF-55182) 3.25 $\Delta R \leq \pm(2.0\%R + 0.01\Omega)$
Short Period	Dielectric voltage	GJB244A (MIL-PRF-55182) 4.8.12/4.8.23/4.8.10	GJB244A (MIL-PRF-55182) 3.18/3.29/3.16 $\Delta R \leq \pm(0.15\%R + 0.01\Omega)$ no physical damage, arc, isolation break through
	Lead strength Impact High frequency vibration	GJB244A (MIL-PRF-55182) 4.8.11/4.8.16/4.8.17	GJB244A (MIL-PRF-55182) 3.17/3.22/3.23 $\Delta R \leq \pm(0.20\%R + 0.01\Omega)$ no physical damage
	Solderability	GJB244A (MIL-PRF-55182) 4.8.14	GJB244A (MIL-PRF-55182) 3.20 $\Delta R \leq \pm(0.10\%R + 0.01\Omega)$ no physical damage

► How to Order

NE1/8	0.5W	10R	B	C6	P
①	②	③	④	⑤	⑥

① Product type: NE1/10, EE1/8,
NE1/4, NE1/2.

② Rated Power (W)

Temperature	Rated Power (W)
70 °C	0.25
	0.50
	0.75
	1.00
125°C	0.10
	0.125
	0.25
	0.50

③ Resistance Value (Ω): 0.05 ~ 10, 0.05 ~ 10,
0.025 ~ 10, 0.025 ~ 10.

⑥ Packaging: P (Bulk)

④ Resistance Tolerance (%)

Code	Resistance Tolerance (%)
J	± 5.00
F	± 1.00
D	± 0.50
C	± 0.25
B	± 0.10
A5	± 0.05

⑤ Temperature Coefficient (ppm/°C)

Code	Temperature Coefficient (ppm/°C)
C7	± 5
C6	± 10
C5	± 15
C3	± 25
C2	± 50