

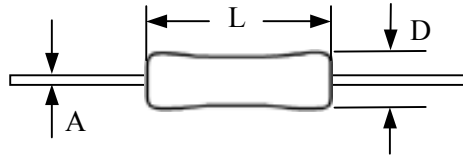


# Precision Resistors

## High Precision Resistors - RE Metal Film Series / 超精密电阻器

- Token RE Series meets MIL-PRF-55182 and GJB244A-2001 quality standards

- Coating Type
- Ultra precision
- Extreme stability
- Excellent reliability
- Low temperature coefficient PPM.
- Covers all general type resistors

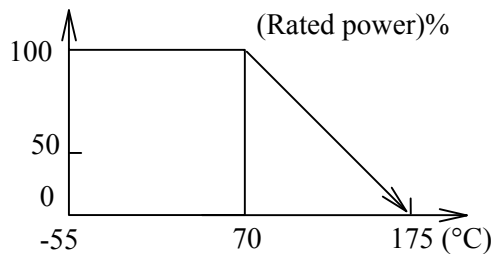


### ► High Precision Resistor Technical Characteristics

Type		RE50	RE55	RE60	RE65	RE70	RE75
Rated Wattage (W)	70 °C	0.125	0.25	0.5	0.75	1.0	1.5
	125 °C	0.05	0.10	0.125	0.25	0.5	1.0
Max. Working Voltage (V)		200	200	250	300	350	500
Dimensions (mm)	L ± 0.3	4.0	6.7	9.6	11.8	13.9	17.7
	D ± 0.4	1.40	2.05	3.15	3.75	4.65	7.20
	A ± 0.05	0.40	0.60	0.60	0.60	0.80	0.80
Resistance Range (Ω)		20 ~ 200K	10 ~ 3M	10 ~ 5M	10 ~ 10M	10 ~ 15M	10 ~ 15M
Working Temperature Range		-55°C ~ +175°C					
Nominal Resistance Tolerance		B(±0.10%), C(±0.25%), D(±0.50%), F(±1.00%) between 5Ω to 3MΩ can be reached to A5(±0.05%) and A2(±0.02%)					
Temperature Coefficient PPM Normal test range(+25°C ~ +85°C) Special require range(-10°C ~ +50°C)		C6(±10PPM/°C), C5(±15PPM/°C), C3(±25PPM/°C), C2(±50PPM/°C) between 5Ω to 3MΩ can be reached to C7(±5PPM/°C)					

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

### ► Power - Temperature Curve



### ► High Precision Resistor Periodical Inspection Items and Methods

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





# Precision Resistors

## ► How to Order



① Product type: RE50, RE55,  
RE60, RE65,  
RE70, RE75.

### ② Rated Power (W)

Temperature	Rated Power (W)
70 °C	0.125
	0.25
	0.5
	0.75
	1.0
	1.5
125 °C	0.05
	0.10
	0.125
	0.25
	0.5
	1.0

③ Resistance Value ( $\Omega$ ): 20 ~ 200K, 10 ~ 3M,  
10 ~ 5M, 10 ~ 10M,  
10 ~ 15M, 10 ~ 15M.

### ④ Resistance Tolerance (%)

Code	Resistance Tolerance (%)
B	$\pm 0.10$
C	$\pm 0.25$
D	$\pm 0.50$
F	$\pm 1.00$

### ⑤ Temperature Coefficient (ppm/°C)

Code	Temperature Coefficient (ppm/°C)
C6	$\pm 10$
C5	$\pm 15$
C3	$\pm 25$
C2	$\pm 50$

⑥ Packaging: P (Bulk)