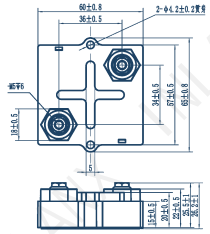
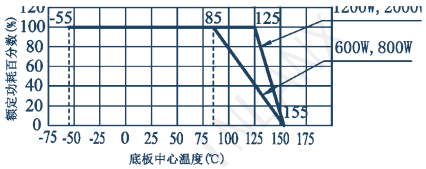
RIG16 High Power Resistor

Outline Drawing



Derating Curve





Grade QB; detail specification Q/RU 656-2026; general specification GB/T 5729-2003.

Electrical Specifications

Model/circuit	Power W	Resistance Ω	Tolerance %	Limit voltage V	Temp. °C	TCR ×10□□/K
RIG16-600W	600	10~1M	±5, ±10	5000	−55~155	±150
RIG16-800W	800	10~1M	±5, ±10	5000	−55~155	±150
RIG16-1200W	1200	10~5k	±5, ±10	5000	−55~155	±300
RIG16-2000W	2000	10~5k	±5, ±10	5000	−55~155	±300

Main Inspection Items

Item	Test method	Requirement
Rapid temperature change	−55 to 155°C, 5 cycles	ΔR≤±(0.5%R+0.05Ω)
Steady-state damp heat	40±2°C, RH 90–95%, 240 h	No visible damage; markings legible; ΔR≤±(0.5%R+0.05Ω)
TCR	−55°C / 25°C / 155°C	600/800W: ≤±150×10□□/K; 1200/2000W: ≤±300×10□□/K
Dielectric withstand	7000 VAC	Leakage ≤10 mA; no breakdown or arcing
Insulation resistance	500 VDC	Ri≥10 GΩ
High-frequency vibration	10–500 Hz; 0.75 mm / 100 m/s²; 90 min	No damage; ΔR≤±(0.25%R+0.05Ω)
Momentary overload	600/800W: 1.5PR, 5 s; 1200/2000W: 1.2PR, 10 s	ΔR≤±(0.4%R+0.05Ω)
Life	UR, 1.5 h on/0.5 h off, 1000 h	ΔR≤±(2%R+0.05Ω)

Ordering Information

RIG16-2000W-10Ω-J

Model / circuit where applicable / power / nominal resistance / tolerance / leads and terminal where applicable.

Tolerance J±5%, K±10%.