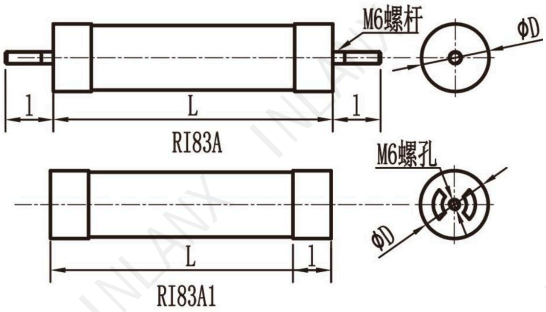
RI83A / RI83A1 Glass Glaze Film Resistors

Outline Drawing





Quality grade J; QB available. Detail specification Q/RU 473-2015; general specification GB/T 5729-2003. RI83A has terminal studs; RI83A1 has M6 tapped holes, as shown.

Outline Dimensions and Ratings

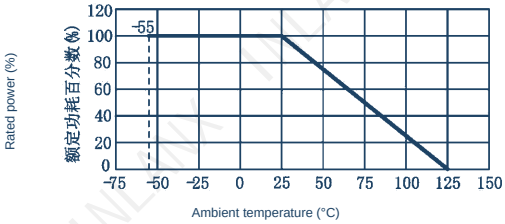
Nominal resistance 50 Ω–1 GΩ. Tolerance: 50 Ω–1 MΩ ±0.5%, ±1%, ±2%, ±5%; 1–100 MΩ ±1%, ±2%, ±5%; 100–500 MΩ ±2%, ±5%; 500 MΩ–1 GΩ ±5%. TCR ±100 or ±200 ×10□□/K.

Model	Power W	L mm	l mm	ΦD mm	Limit kV
RI83A	30	72±2	15±2	27±1	10
RI83A1	30	72±2	—	27±1	10
RI83A	50	148±2	23±2	20±1	15
RI83A	70	122±2	15±2	27±1	15
RI83A1	70	122±2	—	27±1	15
RI83A	100 (60)	152±2	15±2	27±1	20
RI83A1	100 (60)	152±2	—	27±1	20
RI83A	120	202±2	15±2	27±1	22
RI83A1	120	202±2	—	27±1	22
RI83A	150	252±2	15±2	27±1	25
RI83A1	150	252±2	—	27±1	25
RI83A	200 (180)	308±2	15±2	27±1	30
RI83A1	200 (180)	308±2	—	27±1	30
RI83A	300	432±2	23±2	32±1	40
RI83A1	300	432±2	—	32±1	40

Main Inspection Items

Item	Requirement	Test method
Overload	ΔR≤±(2%R+0.05Ω)	min(2.5UR,Umax), 10 s
Rapid temperature change	ΔR≤±(1%R+0.05Ω)	-55 to 125°C, 5 cycles
Damp heat, steady	ΔR≤±(2%R+0.1Ω)	(40±2)°C, RH 90–95%, 240 h
Climatic sequence	ΔR≤±(2%R+0.1Ω)	125°C 16h; cyclic damp heat 25–55°C 24h; -55°C 2h; 8.5kPa 1h; cyclic damp heat 24h
Endurance	ΔR≤±(2%R+0.1Ω)	(25±5)°C, min(UR,Umax), 240 h
Upper-category endurance	ΔR≤±(2%R+0.1Ω)	U=0, 125°C, 240 h

Derating Curve



Ordering Information

RI83A-200W-50Ω-J

RI83A or RI83A1 / power per table / nominal resistance / J±5%.