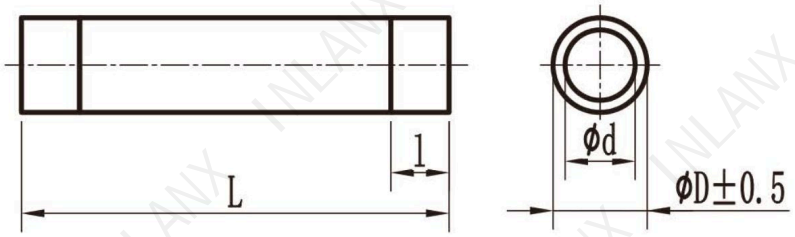
RI83 Glass Glaze Film Resistor

Outline Drawing





Quality grade J; QB grade available. Detail specification Q/RU 295-2012; general specification GB/T 5729-2003.

Outline Dimensions • mm

Power W	L	l	ΦD	Φd
300	306±2	19±2	25	16±1
5	22±0.5	3.0±0.5	9.5	6.5±0.3
10	22±0.5	3.5±0.5	19	11±0.3
15	30±0.2	2±0.5	19	11±0.3
150	198±2	19±1	22	16±1
160	228.6±0.3	11.3±2	19.8	14±0.2
200	270±2	13±2	22	16±1
250	282±2	16±2	22	16±1
350	306±2	16±2	28	22±1
500	430±2	16±2	30	22±1

Electrical Specifications

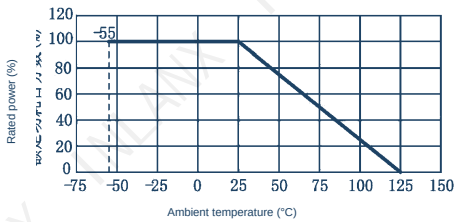
300 W tolerance ±5%, ±10%; other power ratings ±1%, ±2%, ±5%, ±10%.

Power W	Resistance Ω	With heatsink W	TCR ×10□□/K
300	600	—	±300 / ±500
5	47	20	±100 / ±200 / ±500
10	6.2	400	±100 / ±200 / ±500
15	6~20 k	—	±100 / ±200 / ±500
150	50	—	±100 / ±200 / ±500
160	50~500	—	±100 / ±200 / ±500
200	300	2 k	±100 / ±200 / ±500
250	50	2 k	±100 / ±200 / ±500
350	50	5 k	±100 / ±200 / ±500
500	50	10 k	±100 / ±200 / ±500

Main Inspection Items

Item	Requirement	Test method
Overload	ΔR≤±(2%R+0.05Ω)	300 W: UDC=√(10PR), 5 s; others: UAC=2.5√(PR), 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%, 96 h
Climatic sequence	ΔR≤±(5%R+0.1Ω)	125°C 16h; cyclic damp heat 25–55°C 24h; -55°C 2h; 8.5kPa 1h; cyclic damp heat 24h
Electrical endurance	300W ΔR≤±(5%R+0.1Ω)；其他≤±(2%R+0.1Ω)	Room temp, min(UR,Umax); 300 W 1000h; others 240h
Upper-category endurance	ΔR≤±(2%R+0.1Ω)	U=0, 125°C, 96h

Derating Curve



Ordering Information

RI83-5W-47Ω-J

Model / power / nominal resistance / tolerance: F±1%, G±2%, J±5%, K±10%; 300 W only ±5% and ±10%.