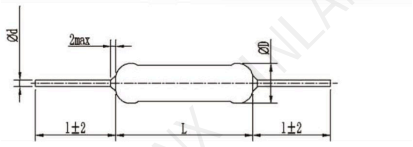
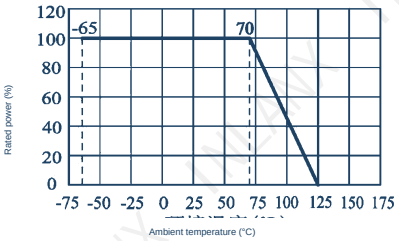
RYH Specialty Resistor

Outline Drawing



Derating Curve





Grades YG, SAST-G and J. YG: Q/RU 21929.9-2018 and QZJ 84061; SAST-G: SASTG 0501-2017-002; J: Q/RU 21929.9-2018. General specification GJB 1929-1994.

Dimensions • mm

Power W	L	ΦD	Φd	Lead l±2
0.25	7.0 max	2.5 max	0.60±0.05	28
0.5	10.5 max	3.9 max	0.60±0.05	28
1	13.0 max	4.5 max	0.80±0.05	28
2	17.0 max	6.5 max	0.80±0.05	28
5	25.5 max	9.0 max	0.80±0.05	33

Transient Overload Ratings

Resistance 1–30Ω; tolerance ±2% or ±5%; TCR ±500 ×10□□/K. Interval ≥1min. For resistance ≤5.1Ω, TCR ≤+1000 ×10□□/K.

Rated W	3× power W	3× limit V	3× time ms	Single power W	Single time ms	Fuse s
0.25	50	—	100	65	200	0.3~4
0.25	50	—	100	145	100	0.15~1
0.5	100	—	100	125	200	0.3~4
1	200	—	100	250	200	0.3~4
2	400	90	100	500	200	0.3~4
5	600	90	100	800	200	N/A

Main Inspection Items

Item	Test method	Requirement
Thermal shock	-65 to 125°C, 5 cycles	ΔR≤±(2%R+0.05Ω)
Low-temp operation	-65°C, UR, 45min	ΔR≤±(2%R+0.05Ω)
Lead strength	Pull 10/15/20N; twist 360° 3 times	ΔR≤±(1.5%R+0.05Ω)
Specified shock	500m/s², 11ms, half-sine, 10 times	ΔR≤±(2%R+0.05Ω)
High-frequency vibration	10–2000Hz, 0.75mm, 150m/s², 8h	ΔR≤±(2%R+0.05Ω)
Overload	2.5UR, 5s	ΔR≤±(2%R+0.05Ω)
Dielectric withstand	V-block AC rms: 0.25W 200V, 0.5W 250V, 1W 300V, 2W 350V, 5W 500V, 1min	ΔR≤±(1%R+0.05Ω)
Solderability	245±2°C, 5s	Tin coverage ≥95%
Moisture resistance	RH80–98%, -10 to 65°C, 24h/cycle, 10 cycles	ΔR≤±(4%R+0.05Ω)
Insulation resistance	100V DC	Ri≥10GΩ
Soldering heat	260±5°C, 10±1s	ΔR≤±(2%R+0.05Ω)
Life	70±5°C, UR, 1.5h on/0.5h off, 96h	ΔR≤±(5%R+0.05Ω)
3× transient overload	As rated, 3 pulses, interval ≥1min	ΔR≤±(10%R+0.05Ω)
Single transient overload	As rated, single pulse	ΔR≤±(3%R+0.05Ω); fusing as rated

Ordering Information

RYH-1W-1Ω-G

RYH / power / nominal resistance / tolerance code G±2%, J±5%.