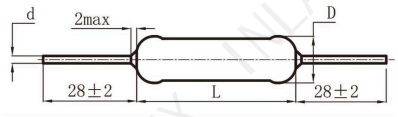
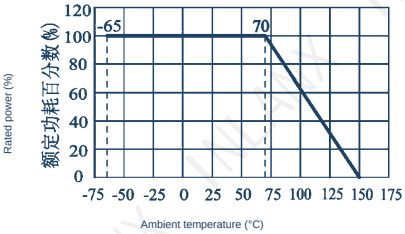
TRY-A Pyrotechnic Initiator Current Limiter Resistors

Outline Drawing



Derating Curve





Yugao quality grade. Detail specification: ZZR-Q/RU 21929.19-2018; generic specification: GJB 1929-1994. Standard deviation of resistance-tolerance consistency within a batch ≤0.5%; out-of-range resistance or tolerance may be negotiated. Consider surface temperature rise at installation.

Outline Dimensions • mm

Power W	L	ΦD	Φd
0.25	6.5±0.5	2.3±0.2	0.60±0.05
0.5	9.8±0.7	3.5±0.4	0.60±0.05
1	12.5±0.8	4.0±0.5	0.80±0.05
2	16.0±1.0	5.9±0.6	0.80±0.05

Electrical Specifications

Power W	Resistance	Tolerance	Pulse power W	Pulse time ms	Fusing time s	TCR ×10^-6/K
0.25	1 Ω~10 Ω	±1%	50	200	0.3~5	Positive ≤400; negative ≤444
0.5	1 Ω~10 Ω	±1%	100	200	0.3~5	Positive ≤400; negative ≤444
1	1 Ω~10 Ω	±1%	200	200	0.3~5	Positive ≤400; negative ≤444
2	1 Ω~10 Ω	±1%	400	200	0.3~5	Positive ≤400; negative ≤444

Main Inspection Items

Fusing time is measured until current falls below 1/50 of its initial test value under the specified pulse overload power.

Item	Requirement	Test method
Thermal shock	ΔR≤±(0.5%R+0.05Ω)	-65 to 150°C, 5 cycles
Low-temperature operation	ΔR≤±(0.5%R+0.05Ω)	-65°C, UR, 45 min
Lead strength	ΔR≤±(0.2%R+0.05Ω)	Pull 10/15/20 N; twist 360°, 3 times
Shock	ΔR≤±(0.5%R+0.05Ω)	980 m/s², 6 ms, sawtooth, 10 shocks
High-frequency vibration	ΔR≤±(0.5%R+0.05Ω)	10–2000 Hz, 0.75 mm, 150 m/s², 8 h
Overload	ΔR≤±(0.5%R+0.05Ω)	2.5UR, 5 s
Dielectric withstand	No breakdown or flashover	V-block: 0.25 W 200 V; 0.5 W 250 V; 1 W 300 V; 2 W 350 V; 1 min
Solvent resistance	No mechanical damage; legible markings	Immerse 1 min, brush 10 times, 3 rounds
Solderability	Solder coverage ≥95%	(245±2)°C, 5 s
Moisture resistance	ΔR≤±(1.5%R+0.05Ω)	RH 80–98%; -10 to 65°C; 24 h (UR for 4 h); 10 cycles
Insulation resistance	≥10 GΩ	100 V DC
Soldering heat	ΔR≤±(0.5%R+0.05Ω)	(260±5)°C, (10±1) s
Life	ΔR≤±(1.0%R+0.05Ω)	(70±5)°C, UR, 1000 h
Pulse overload	ΔR≤±(3.0%R+0.05Ω)	Pulse power and time per table; one pulse

Ordering Information

TRY-A-1W-1Ω-F

Model / Power / Nominal resistance / F±1%.