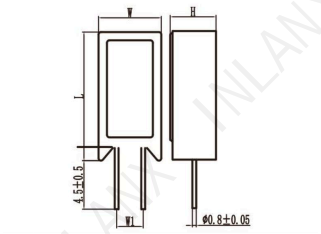
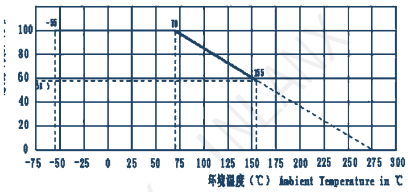
ARX911 Power Wirewound Fixed Resistor

Outline Drawing



Derating Curve





AEC-Q200 grade; detail specification Q/RU 636-2024; general specification AEC-Q200-2023.

Dimensions • mm

Drawing marks leads Φ0.8±0.05, 4.5±0.5, etc.

Power W	L	H	W	W1
5	25.5±1.5	9.5±1	13±1	5.5±1
7	38.5±1.5	9.5±1	13±1	5.5±1
10	35±1.5	13±1	16±1	7.5±1

Electrical Specifications

TCR is not assessed for R<10Ω; R≥10Ω has TCR≤±100×10□□/K.

Power W	Resistance Ω	Tolerance %	Ambient °C
5	1–1k	±5	-55 to 155
7	1–1.5k	±5	-55 to 155
10	1–2.4k	±5	-55 to 155

Main Inspection Items

Item	Test method	Requirement
Withstand voltage	1000VAC, 60±5s	No breakdown/arcing
Insulation resistance	500VDC, 60±5s	≥1GΩ
Solderability	245±5°C, 4.5–5s, immersion ≤1.27mm from body	Tin coverage ≥95%; no non-wetting
High-temp exposure	155°C storage, 1000h	No damage; ΔR≤±(5%R+0.1Ω)
Temperature shock	-55 to 155°C, 1000 cycles	No damage; ΔR≤±(3%R+0.1Ω)
Steady damp heat	85°C, RH85%, 1000h, V=10%√PR	No damage; ΔR≤±(5%R+0.1Ω)
High-temp life	70°C, V=√PR, 1.5h on/0.5h off, 1000h	No damage; ΔR≤±(5%R+0.1Ω)
Lead strength	20N pull for 5–10s; 90° bend, 10N, same direction, 3 times	No damage; ΔR≤±(1%R+0.1Ω)
High-frequency vibration	10–2000Hz, 5g, 20min/axis, 12 cycles on each of 3 axes	No damage; ΔR≤±(1%R+0.1Ω)
Shock	Half-sine, 100g peak, 6ms, 5 times on each of 3 axes	No damage; ΔR≤±(1%R+0.1Ω)
Soldering heat	260±5°C, 10±1s, ≤1.27mm from body	No damage; ΔR≤±(1%R+0.1Ω)
ESD	Human body model, one of each polarity, 4000V	No damage; ΔR≤±(3%R+0.1Ω)
Flammability	Vertical burn	V-0, afterflame ≤10s
Flame resistance	9–32V in 1V increments, ≥1h each; 5W 70Ω–1kΩ, 7W 60Ω–1.5kΩ, 10W 65Ω–2.4kΩ	No flame >3s, no explosion, no >350°C sustained >10s
Overload	V=√(10PR), 5s	No damage; ΔR≤±(3%R+0.1Ω)

Ordering Information

ARX911-5W-75Ω-J

Model / rated power / nominal resistance / J±5%.