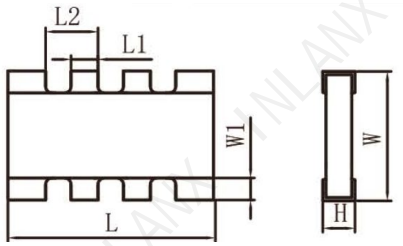
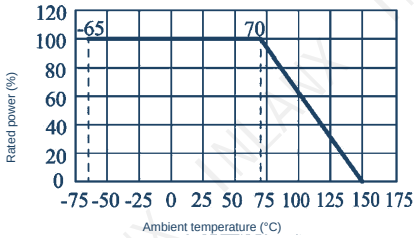
RNK5084 5084 Surface-mount Film Resistor Network with Specified Failure Rate

Outline Drawing



Derating Curve





Quality grade: YC. Detail specification: Q/QJA 20090/1A-2019. Generic specification: GJB 7690-2012.

Outline Dimensions • mm

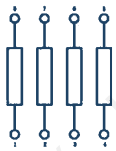
Model	L	L1	L2	W	W1	H
RNK5084	3.20±0.20	0.50±0.15	0.80±0.05	1.60±0.20	0.30±0.20	0.60±0.15

Electrical Specifications

R in Ω; F±1%, G±2%, J±5%. Construction: Figure 1.

Model	Power W	Resistance	Tolerance	Rated voltage	TCR ×10^-6/K
RNK5084	0.25	10 Ω~1 MΩ	F / G / J	min(√(0.063R), 40) V	±100, ±300

Circuit Diagram



Main Inspection Items

Numerical criteria: ΔR≤±(listed value %R+0.01 Ω), except for TCR and textual requirements.

Item	Char. M	Char. K	Test method
Temperature coefficient	±300×10^-6/K	±100×10^-6/K	-55℃ to 125℃
Thermal shock	0.5	0.5	-65℃ to 125℃, 25 cycles
Power ageing	0.7	0.7	25℃, 1.5UR (≤Umax), 100 h
Short-time overload	0.5	0.25	25℃, 2.5UR (≤2Umax), 5 s
Low-temperature operation	0.5	0.25	-65℃, UR (≤Umax), 45 min
Resistance to soldering heat	0.25	0.25	245℃, 30 s, 2 cycles
Moisture resistance	0.5	0.5	65℃, RH80% to 100%
High-temperature exposure	1.0	0.5	150℃, 100 h
Life	2.0	0.5	70℃, UR (≤Umax), 2000 h
Solderability	Solder coverage ≥95%	Solder coverage ≥95%	245℃, 5 s

Ordering Information

RNK5084-M-E-472-F-A-M

Model / Characteristic K or M / Termination class E / E24 or E96 nominal resistance / F±1%, G±2%, J±5% / Structure A / Quality grade P or M