RNK Surface-mount Film Resistor Networks with/without Specified Failure Rate

Outline Drawing

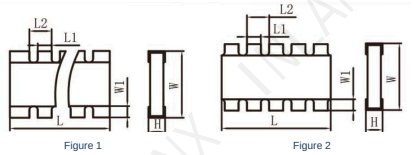
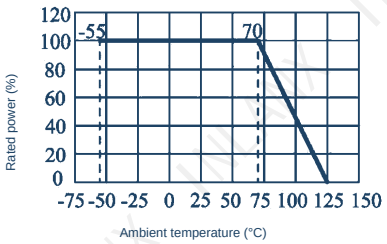


Figure 1 Figure 2

Derating Curve





Quality grade: J. Detail specifications: RNK5084, 5085 and 5086, GJB 7690/3, 4 and 5-2013 respectively. Generic specification: GJB 7690-2012. RNK5084 is available in the seven-special quality grade.

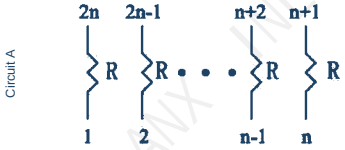
Outline Dimensions • mm

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
RNK5085	2.00±0.20	0.30±0.10	0.50±0.05	0.92±0.20	0.15±0.05	0.40±0.15
RNK5086	5.08±0.20	0.81±0.10	1.27±0.10	3.20±0.20	0.50±0.10	0.60±0.15

Electrical Specifications

Model	Power W	Resistance	Tolerance	Rated voltage	TCR ×10^-6/K
RNK5084	0.4	10 Ω~1 MΩ	F / G / J	min(√(0.1R), 50) V	±100, ±300
RNK5085	0.16	10 Ω~1 MΩ	F / G / J	min(√(0.04R), 25) V	±100, ±300
RNK5086	1	10 Ω~1 MΩ	F / G / J	min(√(0.25R), 100) 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	-55℃ to 125℃, 5 cycles
Power ageing	0.7	0.7	25℃, 1.25UR (≤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	125℃, 100 h
Life	2.0	0.5	70℃, UR (≤Umax), 2000 h
Solderability	Solder coverage ≥95%	Solder coverage ≥95%	245℃, 5 s; steam ageing 1 h

Ordering Information

RNK5084ME472FAM

Model / Characteristic K or M / Termination class E / E24 or E96 nominal resistance / F±1%, G±2%, J±5% / Structure A / Quality grade M; construction: Figure 1; R in Ω.