SSMSUSUMU

Reliability specification								
		Low		Regular		High		Typical
Test Items	Condition (test methods)	≦47Ω	≧47Ω	≦47Ω	≧47Ω	≦47Ω	≧47Ω	Low
Short time overload	2.5 x rated voltage, ¹ 5 seconds	±0.10%	±0.05%	±0.10%	±0.05%	_	±0.10%	±(0.01%)
Life (biased)	70°C, rated voltage, $^{^{\ast}1}$ 90min on 30min off, 1000hours	±0.25%	±0.10%	±0.50%	±0.25%	_	±0.50%	±(0.01%)
High temperature high humidity	85°C, 85%RH, 1/10 of rated power,	±0.25%	±0.10%	±0.50%	±0.25%	_	±0.50%	±(0.05%)
	90min on 30min off, 1000hours							
Temperature shock	-55°C (30min) \sim 125°C (30min) 1000cycles	±0.25%	±0.10%	±0.25%	±0.10%	-	±0.10%	±(0.01%)
High temperature exposure	155°C, no bias, 1000hours	±0.25%	±0.10%	±0.25%	±0.10%	_	±0.10%	±(0.01%)
Resistance to soldering heat	260±5℃, 10 seconds (reflow)	±0.1%	±0.1%	±0.1%	±0.1%	_	±0.1%	±(0.01%)
*1 Pated voltage is given by $E = \sqrt{P \times P}$ = E = rated voltage (V) P = nominal resistance value(O) P = rated power(M)								

*1 Rated voltage is given by E= vRxP E= rated voltage (V), R=nominal resistance value(Ω), P=rated power(W) If rated voltage exceeds maximum voltage /element, maximum voltage/element is the rated voltage.

10000 hour reliability test data

OBiased life test



OTemperature shock



Derating Curve



Maximum pulse power limit



Test procedure

Voltage pulse is applied to the test samples mounted on the test board.

After each pulse, resistance drift is measured. Pulse voltage is increased until the drift exceeds +/-0.5%. The power at that voltage is defined as the maximum pulse power.

OHigh temperature high humidity (biased)



OHigh temperature exposure



RG series