

ULTRAPRECISION THIN-FILM RESISTOR/RADIAL LEAD – TYPE LRG020



The ultra-precision thinfilm resistor **LRG020** was introduced from SUSUMU, the technology leader in this segment with a resistance tolerance of $\pm 0.01\%$ and a TCR of $2 \text{ ppm}/^\circ\text{C}$ features unmatched reliability and excellent stability at different environmental conditions. Furthermore they low noise, thin film (NiCr) construction, RoHS compliance and 100% lead-free are its qualities.

SPECIFICATIONS

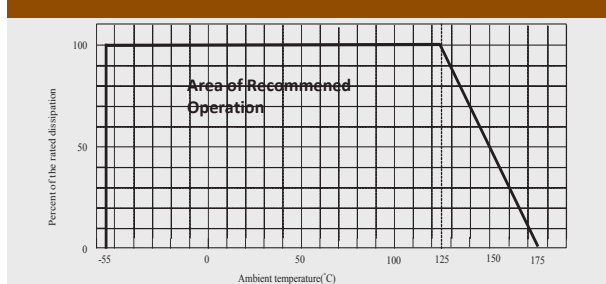
	TYPE	LEAD PITCH	POWER RATING	R-TOLERANCE	TCR	MAX. OPERATING VOLTAGE	R-VALUES
LRG020		5.08 mm 3.81 mm*	0.3W (at 70°C)	$\pm 0.01\%$ (L) $\pm 0.02\%$ (P) $\pm 0.05\%$ (W) $\pm 0.1\%$ (B)	$\pm 2 \text{ ppm}/^\circ\text{C}$ (L) $\pm 5 \text{ ppm}/^\circ\text{C}$ (V)	250V	100 Ω ... 100 k Ω (E-24, E-96)

* on request

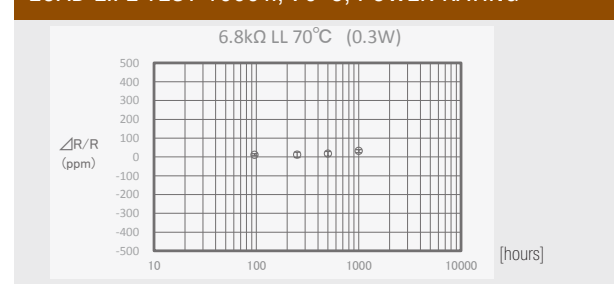
RELIABILITY TEST DATA (TEST METHOD MIL-PRF-55342 (JIS C5201-1))

PARAMETER	CONDITIONS	ΔR LIMITS
Short Time Overload	2.5 times of Rated Load, 5s	$\pm 0.05\% + 0.01 \Omega$
Load Life	70°C Rated Load 90 min. On/30 min. Off, 2000 cycles	$\pm 0.05\% + 0.01 \Omega$
Temp. Hum. Bias	85°C 85% RH 1/10 power loaded 90 min./ 30 min. Off, 2000 cycles	$\pm 0.05\% + 0.01 \Omega$
Thermal Shock	-65°C (30 min)/room temp.(2 min) /+150°C(30 min)/room temp. (2 min.), 100 cycles, no bias	$\pm 0.05\% + 0.01 \Omega$
High Temperature	155°C for 1000h, no bias	$\pm 0.05\% + 0.01 \Omega$

POWER DERATING CURVE



LOAD LIFE TEST 1000 h, 70°C, POWER RATING



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