

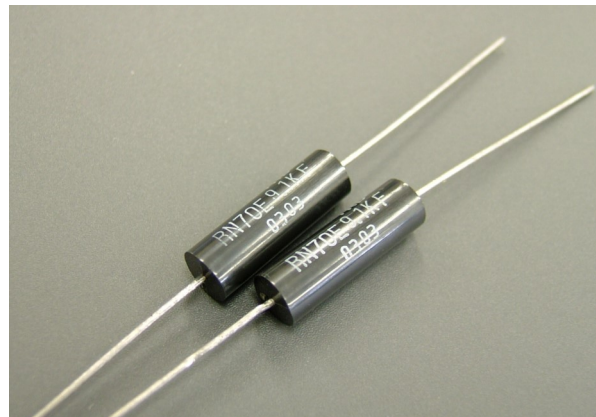
Correctohm-RN Series

RESISTOR

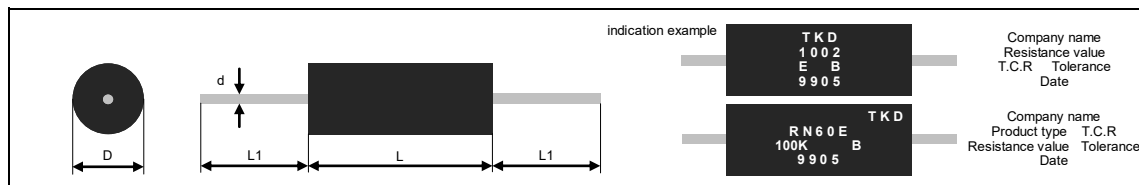
Metal Film Resistor

High precision & Low T.C.R

Molding insulation



Dimensions



Dimensions [mm]

Product type	D	L	d	L1
RN50	1.8±0.2	3.8±0.5	0.4±0.05	30±3
RN55	3.4±0.2	6.6±0.5	0.6±0.05	38±3
RN60	3.9±0.2	10.5±0.5	0.6±0.05	38±3
RN65	5.3±0.3	16.0±0.5	0.6±0.05	38±3
RN70	6.5±0.5	20.0±0.5	0.8±0.05	38±3
RN75	10.0±0.5	28.0±0.5	0.8±0.05	38±3

Materials

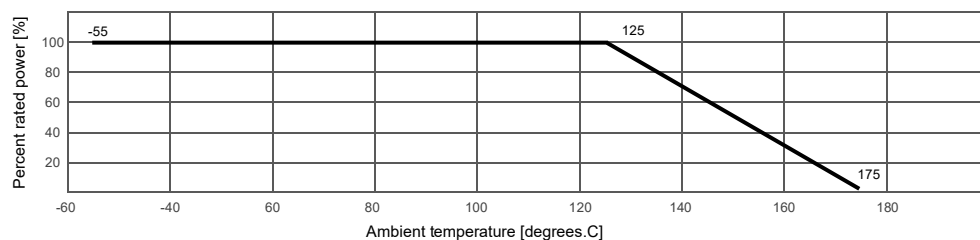
Insulation molding	epoxy resin
Resistive film	Ni-Cr type
Lead wire	annealed copper wire
Core	ceramic

Authorization results

MIL-R-10509F AMENDMENT4
 DSP C 6001-501 C
 DSP C 6001-502 E

Rating

Product type	Rated power [W]		Highest usable voltage [V]		Extreme highest overload voltage [V]	Applicable temperature range [degs. C]
	125 degs. C	70 degs. C	125 degs. C	70 degs. C		
RN50	0.05	0.1	200	200	400	-55~175 [degs. C]
RN55	0.1	0.125	200	250	400	
RN60	0.125	0.25	250	300	500	
RN65	0.25	0.5	300	350	600	
RN70	0.5	0.75	350	400	700	
RN75	1	1.5	500	600	1000	



Model number

RN **60** **E** **10kohm** - **B**

Product type Rated power Temperature coefficient of resistance Resistance value Resistance tolerance

Temperature coefficient of resistance

Symbol	R	S	E	C
T.C.R [ppm/degs. C]	±5	±10	±25	±50

* The guarantee temperature range of T.C.R is 0~70 degs. C about R, S.

Resistance tolerance

Symbol	B	C	D	F
Tolerance [%]	±0.1	±0.25	±0.5	±1

Production resistance value range

Product type	Resistance tolerance	Production resistance value range [ohm]			
		Temperature coefficient of resistance			
		R	S	E	C
RN50	B	49.9~999.9		49.9~999.9	
	C			30.1~999.9	
	D, F	49.9~21.9K		10.0~21.9K	
RN55	B	49.9~129K	49.9~129K	10~129K	
	C		30.1~129K		
	D, F	49.9~179K	30.1~179K	10~179K	
RN60	B	49.9~250K		49.9~250K	
	C, D			30.1~250K	
	F			10~250K	
RN65	B	49.9~250K		49.9~250K	
	C, D			30.1~250K	
	F			10~250K	
RN70	B	49.9~511K		49.9~1M	
	C, D			30.1~1M	
	F			10~1M	
RN75	B	100~301K		49.9~1M	
	C, D			49.9~5.11M	
	F				

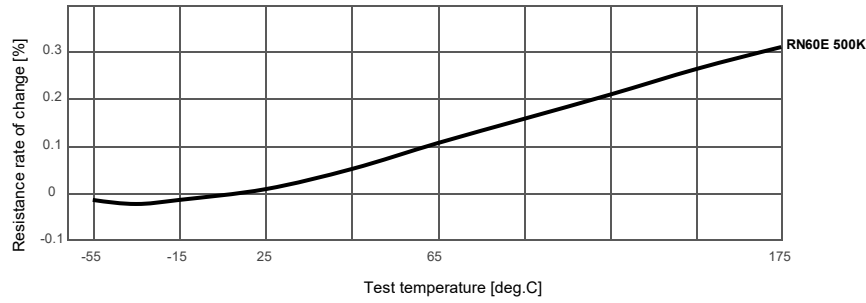
MIL standard and DSP standard

Product type	Resistance tolerance	Temperature coefficient of resistance	Production resistance value range
RN55	B, C, D, F	E, C	49.9~100K
RN60			49.9~250K
RN65			49.9~250K
RN70			49.9~1M
RN75			49.9~1M
			49.9~2M

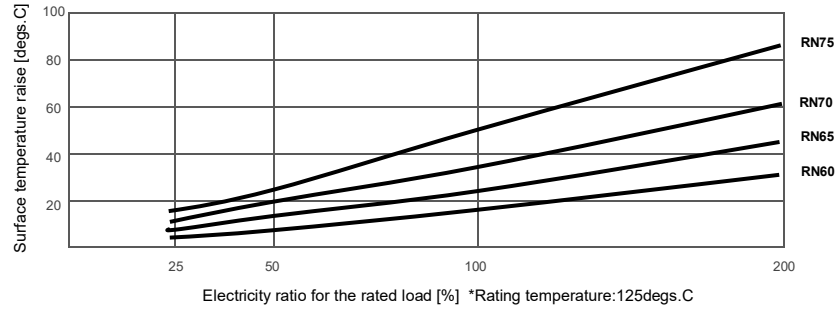
General specifications

RN	
Storage temp. range	-10 to +50 degrees C
Relative humidity	85%RH (No condensation)

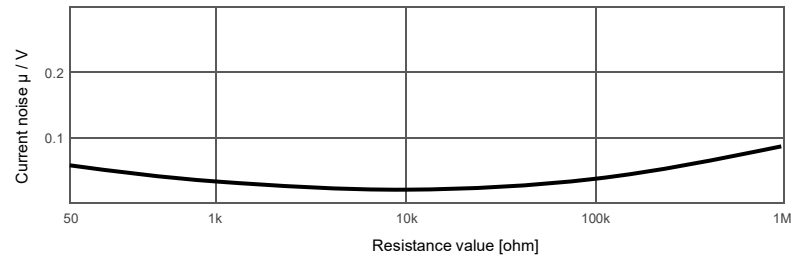
Temperature coefficient of resistance



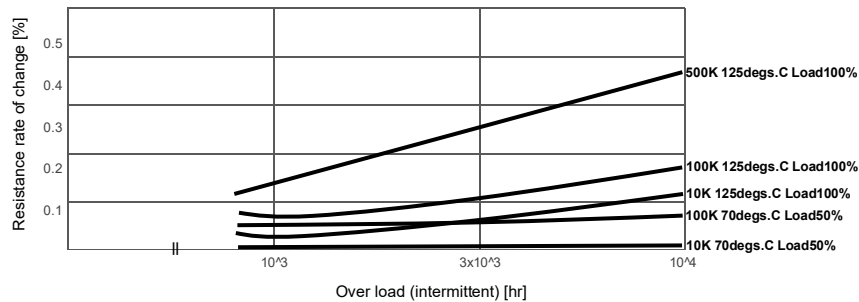
Surface temperature raise



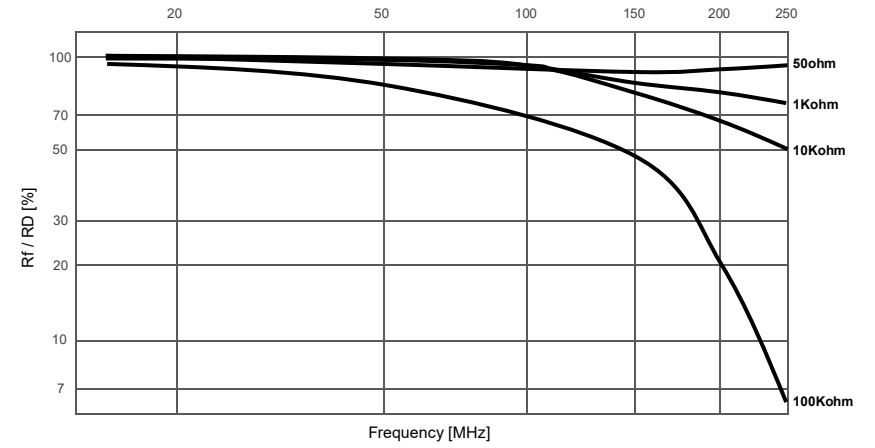
Current noise



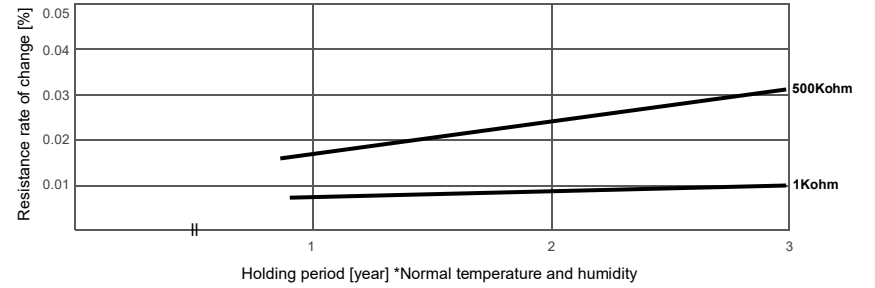
Rated load test



High frequency characteristic



Secular variation



Performance

Performance test contents		Performance of Correctohm-RN	JIS C 5202
Electric	Resistance value	Rate value	5.1
	T.C.R	Rate value	5.2
	Overload (short time)	±(0.1%+0.01ohm)	5.5
	Insulation resistance	100,000Mohm Min.	5.6
	Voltage proof	±(0.1%+0.01ohm)	5.7
	Overload (intermittent)	±(0.1%+0.05ohm)	5.8
Mechanic	Terminal strength	±(0.02%+0.05ohm)	6.1
	Vibration resistance	±(0.1%+0.05ohm)	6.3
	Solder dip resistance	±(0.05%+0.05ohm)	6.4
	Solderability	95% Min.	6.5
Solvent resistance		Appearance not having a problem.	6.9
Weatherability	Low temperature test	±(0.1%+0.05ohm)	-
	Temperature cycling test	±(0.1%+0.05ohm)	7.4
	Humidity resistance	±(0.2%+0.05ohm)	7.9
	Rated load (70degs.C)	±(0.2%+0.05ohm)	7.10
	Rated load (125degs.C)	±(0.3%+0.05ohm)	

Note

* Use to the apparatus which may cause an in-vehicle apparatus (including the train), medical equipment, an aviation apparatus, an apparatus about human life including the ship apparatus and the serious damage; when is done, please talk by all means.