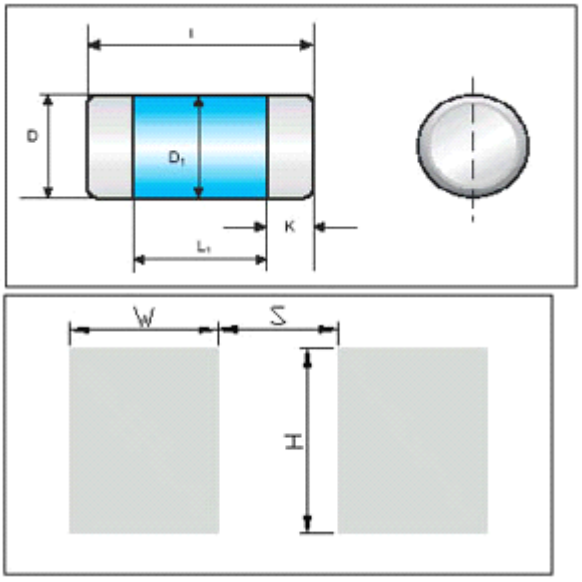
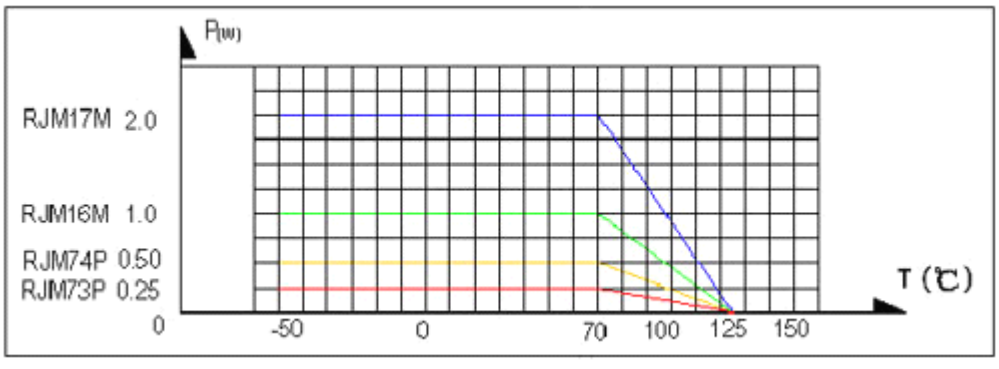
QUICK REFERENCE DATA

Type		RJM73P	RJM74M	RJM74P	RJM16M	RJM17M	RJM18M
Metric type		DIN: 0204		DIN: 0207		DIN: 0411	
Resistance range		10Ω to 10MΩ					
Resistance tolerance %		A5(±0.05); B(±0.10); C(±0.25); D(±0.5); F(±1); J(±5%)					
Temperature coefficient(ppm/°C)		C7(±5); C6(±10); C5(±15); C3(±25); C2(±50)					
Climatic category(LCT/UCT/days)		55/125/56					
Rated dissipation, **P**70		0.25W	0.50W	0.5W	1.0W	2.0W	3.0W
Operating voltage *U*max		250V	300V	350V	400V	450V	
Temperature range		-55°C to 125°C					
Insulation voltage		300V	500V	600V	700V	800V	900V
Insulation resistance		1G					
Dimension	±0.2mm	L=3.5;L1=1.6; D=1.3		L=5.7; L1=3.5; D=2.1	L=6.0; L1=3.9; D=2.1	L=8.7; L1=6.2; D=3.1	L=11.8; L1=8.8; D=3.6
		Kmin=0.8; D1=D+0/D-0.25		Kmin=1.0; D1=D+0 / D-0.5	Kmin=1.2;D1=D+0/D-0.5	D1=D+0/D-0.5; Kmin=1.5	D1=D+0/D-0.5; Kmin=1.6
Soldering bath (recomanded) (mm)		S=1.6; W=2.5; H=2.5		S=2.6; W=2.5; H=2.5	S=2.8; W=2.8; H=2.8	S=5.6; W=3.2; H=3.8	S=8.2; W=4; H=4.5
Outlines							
Derating curve							

Test procedures and requirements

IEC 60115-1 CLAUSE	IEC 60068-2 TEST METHOD	TEST	PROCEDURE	REQUIREMENTS PERMISSIBLE CHANGE (ΔR/R)		
		Type		RJM73P, RJM74P	RJM74S, RJM16M	RJM17M, RJM18M
		resistance range		100Ω to 100kΩ	100Ω to 470kΩ	100Ω to 100kΩ
4.5	—	tolerance	(%)	±0.05; ±0.10; ±0.25; ±0.5; ±1.0; ±5.0		
4.8	—	temperature coefficient	at 25/ 85/ 25°C or under request at 25 / -55 /25°C or at 25 / 125 /25°C	±5ppm/°C; ±10ppm/°C; ±15ppm/°C; ±25ppm/°C; ±50ppm/°C; ±100ppm/°C;		
4.13	—	short time overload;	room temperature; $U=(2.5xP_{70}xR)^{1/2}\leq 2U_{max}$; 5_s	±0.10%+0.05Ω for normal tol. ±0.05%+0.05Ω for high precision ±0.025%+0.05Ω for ultra high precision	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision
4.17.2	58(Td)	solderability	solder bath method; 215°C; 3_s	good tinning ≥95% covered; no visible damage		
4.18.2	58(Td)	resistance to soldering heat	solder bath method; 260±5°C; 5 $\pm 1_s$	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.025%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision
4.19	14 (Na)	rapid change of temperature	30 minutes at -55°C; 30 minutes at +155°C; 5 cycles	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.025%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision
4.22	6(B4)	vibration	6h 10 to 2000Hz 1.5mm or 196 m/s	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.025%+0.05Ω for ultra high	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.05%+0.05Ω for ultra high	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.05%+0.05Ω for ultra high

				precision	precision	precision
4.23		climatic sequence;				
4.23.2	2(Ba)	dry heat	UCT; 16 h			
4.23.3	30(Db)	damp heat,	55°C; 24h; ≥90% RH			
		cyclic	1 cycle;			
4.23.4	1 (Aa)	cold	LCT; 2 h			
4.23.5	13 (M)	low air pressure	8.5 kPa			
			25±10°C 2h;			
4.23.6	30(Db)	damp heat	55°C;24h; ≥90% RH ;	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.05%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.10%+0.05Ω for ultra high precision
		cyclic	5 cycles;			
			LCT=-55°C;			
			UCT=125°C			
4.24	3(Ca)	damp heat, steady state	40±2°C;56 days	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.05%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.25%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.25%+0.05Ω for ultra high precision
			93 +2/-3% RH			
4.25.1	—	endurance; standard operation mode	$U=(P_{70}xR)^{1/2}\leq U_{max}$; 1.5 h on; 0.5h off; 70°C; 1000 h	±0.25%+0.05Ω for normal tol. ±0.10%+0.05Ω for high precision ±0.05%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.25%+0.05Ω for ultra high precision	±0.50%+0.05Ω for normal tol. ±0.25%+0.05Ω for high precision ±0.25%+0.05Ω for ultra high precision
4.29	45 (XA)	component solvent resistance	isopropyl alcohol; +23°C; toothbrush method	marking legible; no visible damage		

Remark

Unliss otherwise specified, all values are tested at the following condition:

Temperature: 21°C to 25°C; Relative humidity: 45% to 60%