

RX27 power ceramic encased wire-wound resistors



Features

- Moisture-proof
- good heat-resistant
- Perfect insulation
- Wide working temperature range

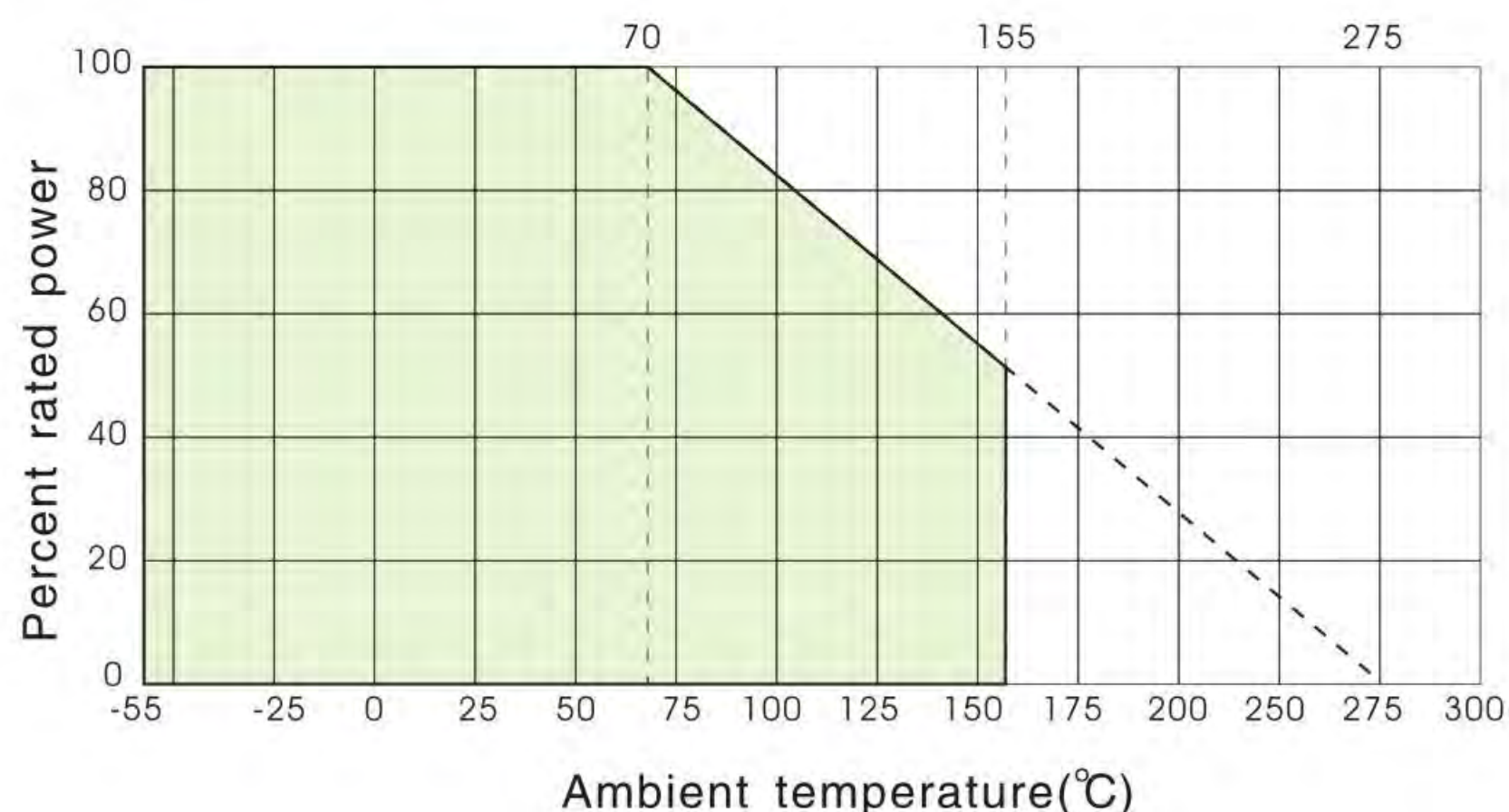
Applications

- Used in electrical instruments equipments
Colour TV, audio, charger etc

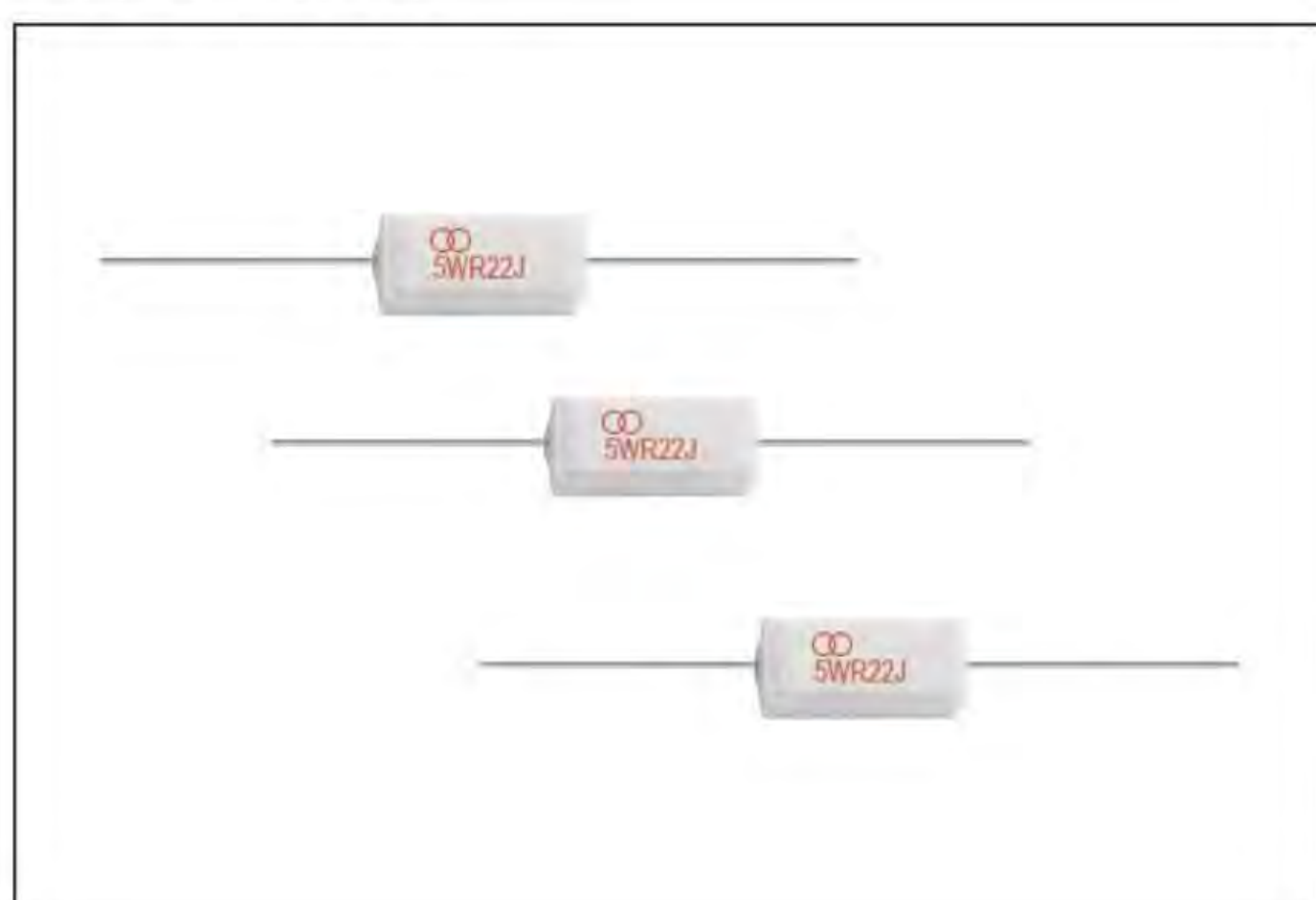
Reference Standards

Q/ATK03-2002

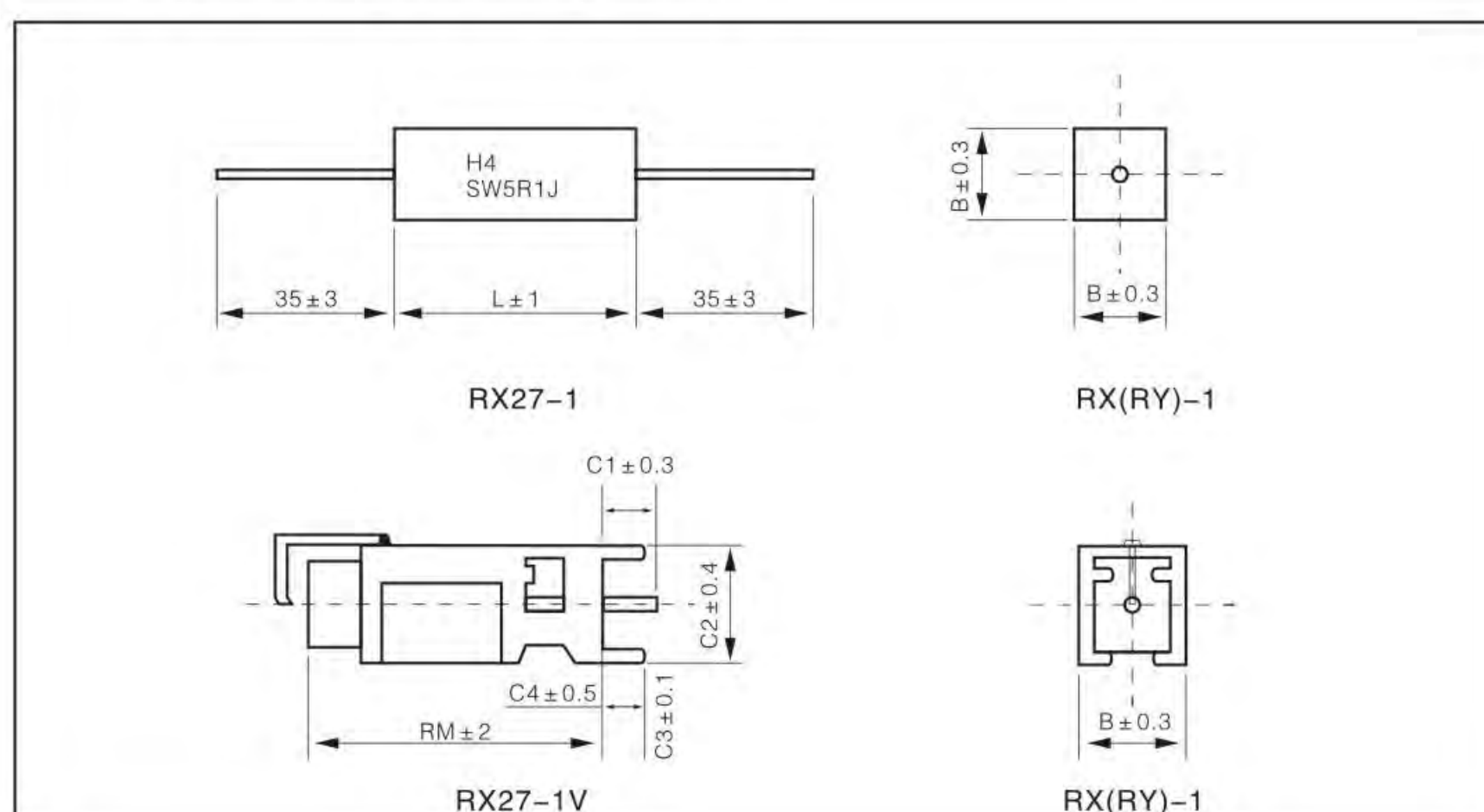
Derating Curve



RX27-1/1V



Construction(mm)



Technical Specifications

Type	Rated Power(W)	Resistance Range		Dimensions(mm)							
		RX27-1	RY27-1	L	B	RM	C1	C2	C3	C4	
RX(RY)27-1	2.0	R1...390R	390R...100K	17.5	6.5						
RX(RY)27-1	3.0	R1...680R	680R...100K	22.0	8.0						
RX(RY)27-1	5.0	R1...680R	680R...100K	22.0	9.5						
RX(RY)27-1/1V	7.0	R22...1K5	1KO...100K	35.0	9.5	47.0	5.0	11	1.5	4.0	
RX(RY)27-1/1V	10.0	R33...2K4	1KO...100K	48.0	9.5	60.0	5.0	11	1.5	4.0	
RX(RY)27-1/1V	15.0	5R1...9K1	1KO...100K	48.0	12.5	61.0	6.5	14	2.5	4.5	
RX(RY)27-1/1V	20.0	5R1...12K	1KO...100K	63.5	12.5	77.0	6.5	14	2.5	4.5	

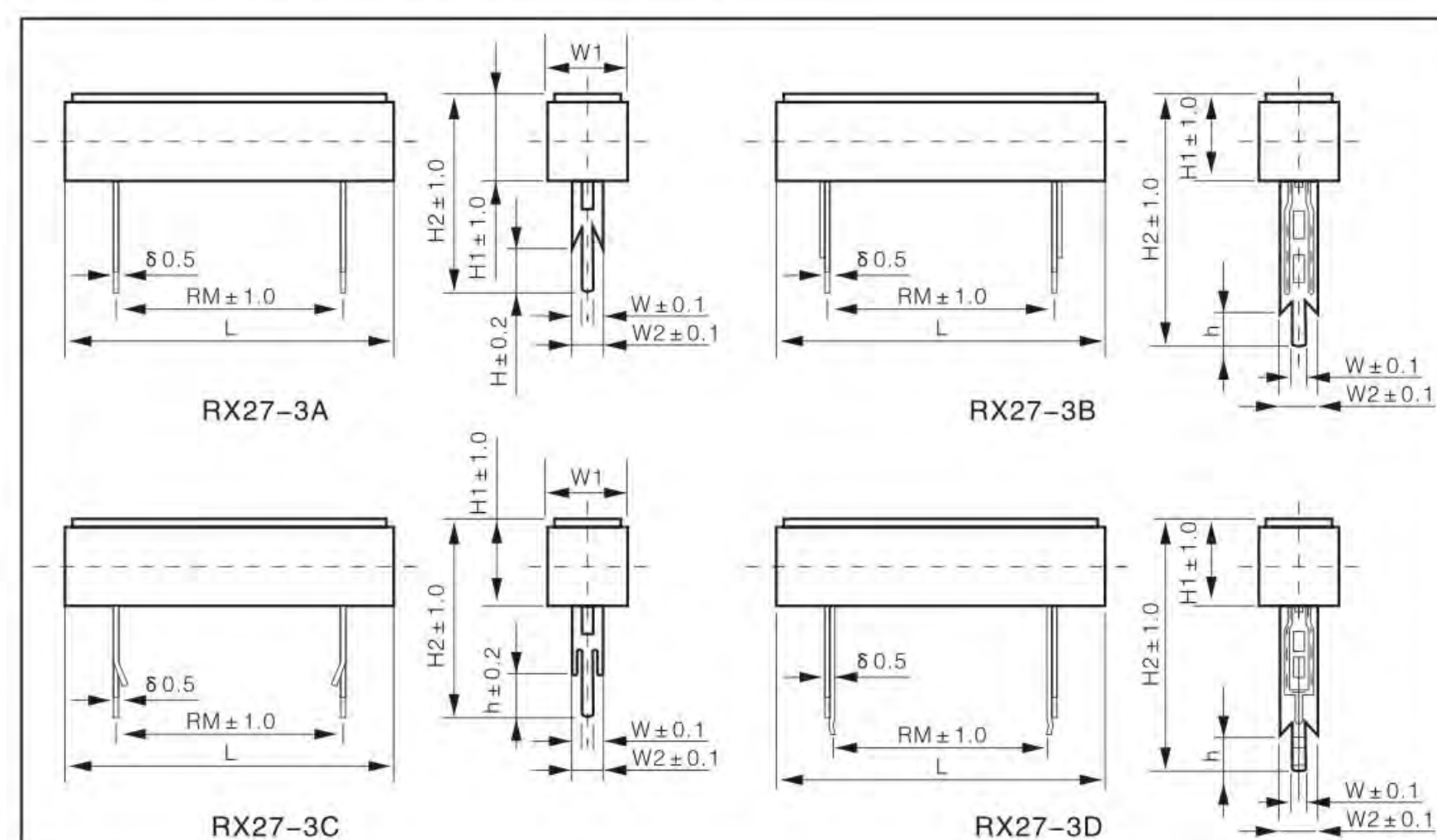
RX27 power ceramic encased wire-wound resistors



RX27-3A/B/C/D



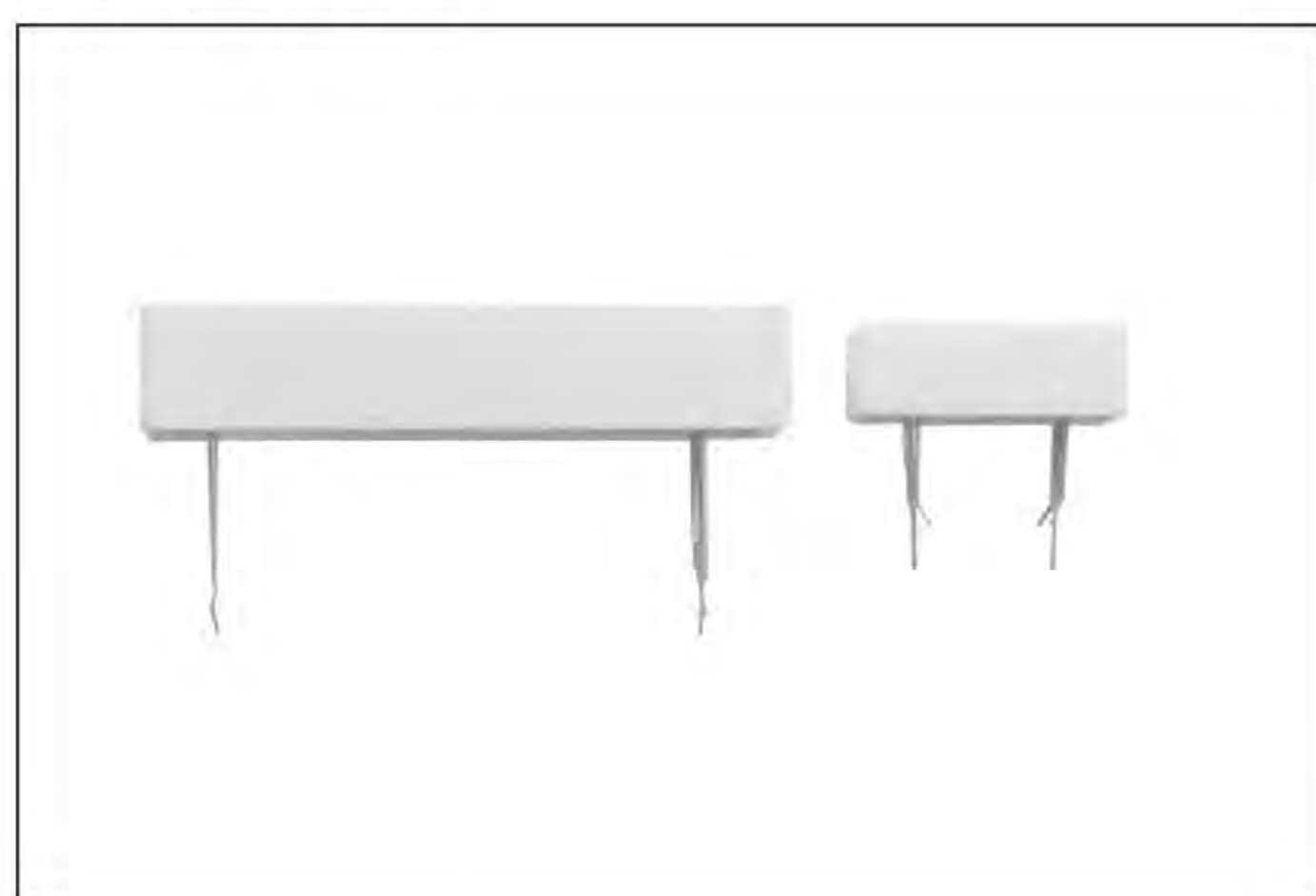
Construction(mm)



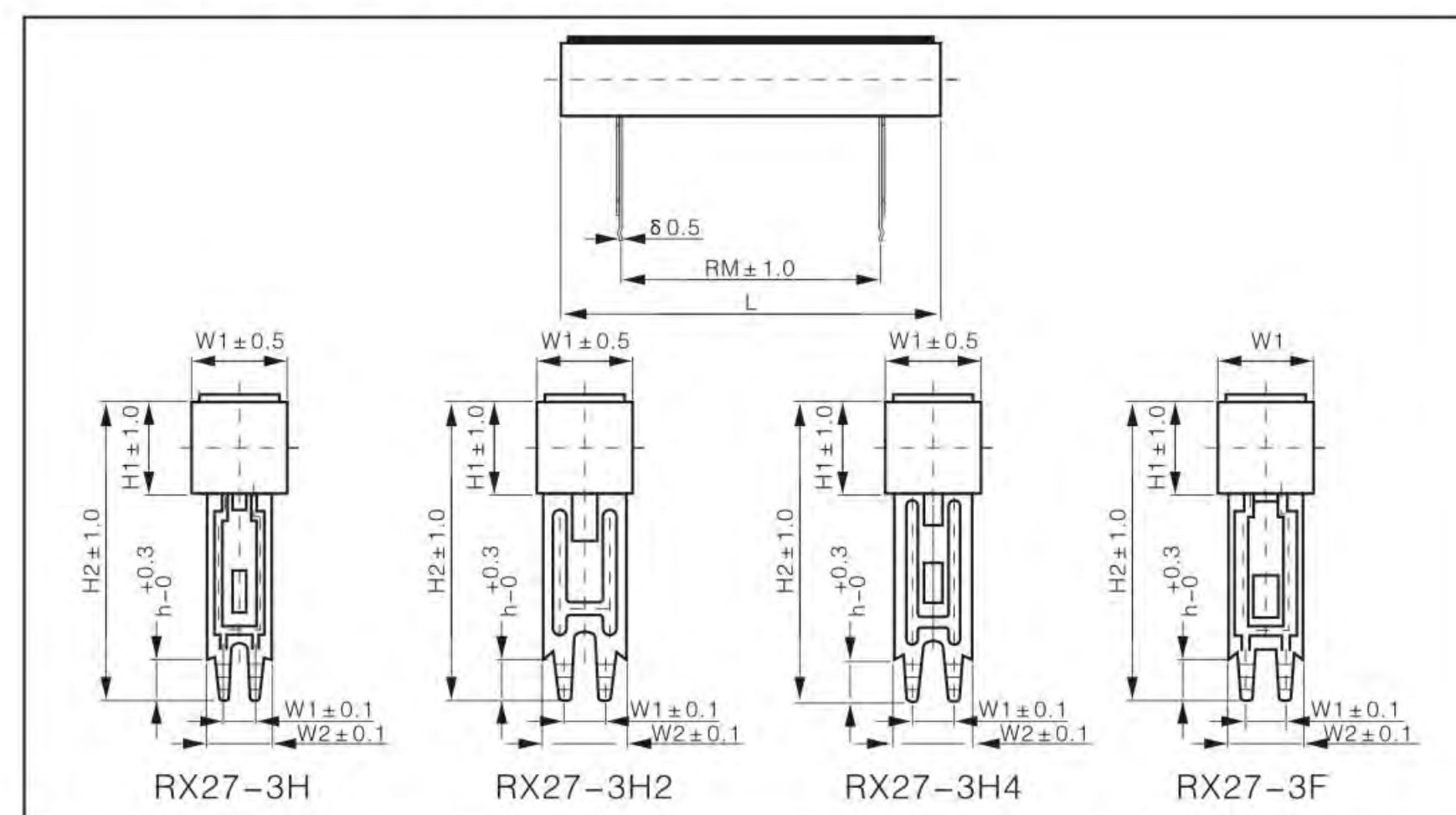
Technical Specifications

Type	Rated Power(W)	Resistance Range		Dimensions(mm)							
		RX27-1	RY27-1	L	RM	H1	H2	h	W1	W2	W
RX(RY27) -3A/3B/3C/3D/3D5	3.0	R2...2K4	390R...100K	25.0±0.5	12.5	9.0	23.5/39.0/23.5 39.5/30.0	4.5±0.3	9.0±0.5	5/7.3	1.5
RX(RY27) -3A/3B/3C/3D/3D5/3D6	5.0	R22...3K6	680R...100K	27.0±0.5	15.0	9.5	24.0/39.0/24.0 39.0/30.0/39.0	4.5±0.3	9.5±0.5	5/7.3	1.5
RX(RY27) -3A/3B/3C/3D/3D5/3D6	7.0	R39...4K7	680R...100K	35.0±0.8	22.5	9.5	24.0/39.0/24.0 39.0/30.0/39.0	4.5±0.3	9.5±0.5	5/7.3	1.5
RX(RY27) -3A/3B/3C/3D/3D5/3D6	10.0	R39...6K8	1K0...100K	48.0±1.0	35.0	9.5	24.0/39.0/24.0 39.0/30.0/39.0	4.5±0.3	9.5±0.5	5/7.3	1.5
RX(RY27) -3A/3B/3C	15.0	R51...7K5	—	48.0±1.0	32.0	12.5	32.5/47.5/32.5	5.0±0.2	12.5±0.5	5/-	2.7
RX(RY27) -3A/3B/3C	20.0	R51...10K	—	63.5±1.2	47.5	12.5	32.5/47.5/32.5	5.0±0.2	12.5±0.5	5/-	2.7

RX27-3F/3H



Construction(mm)



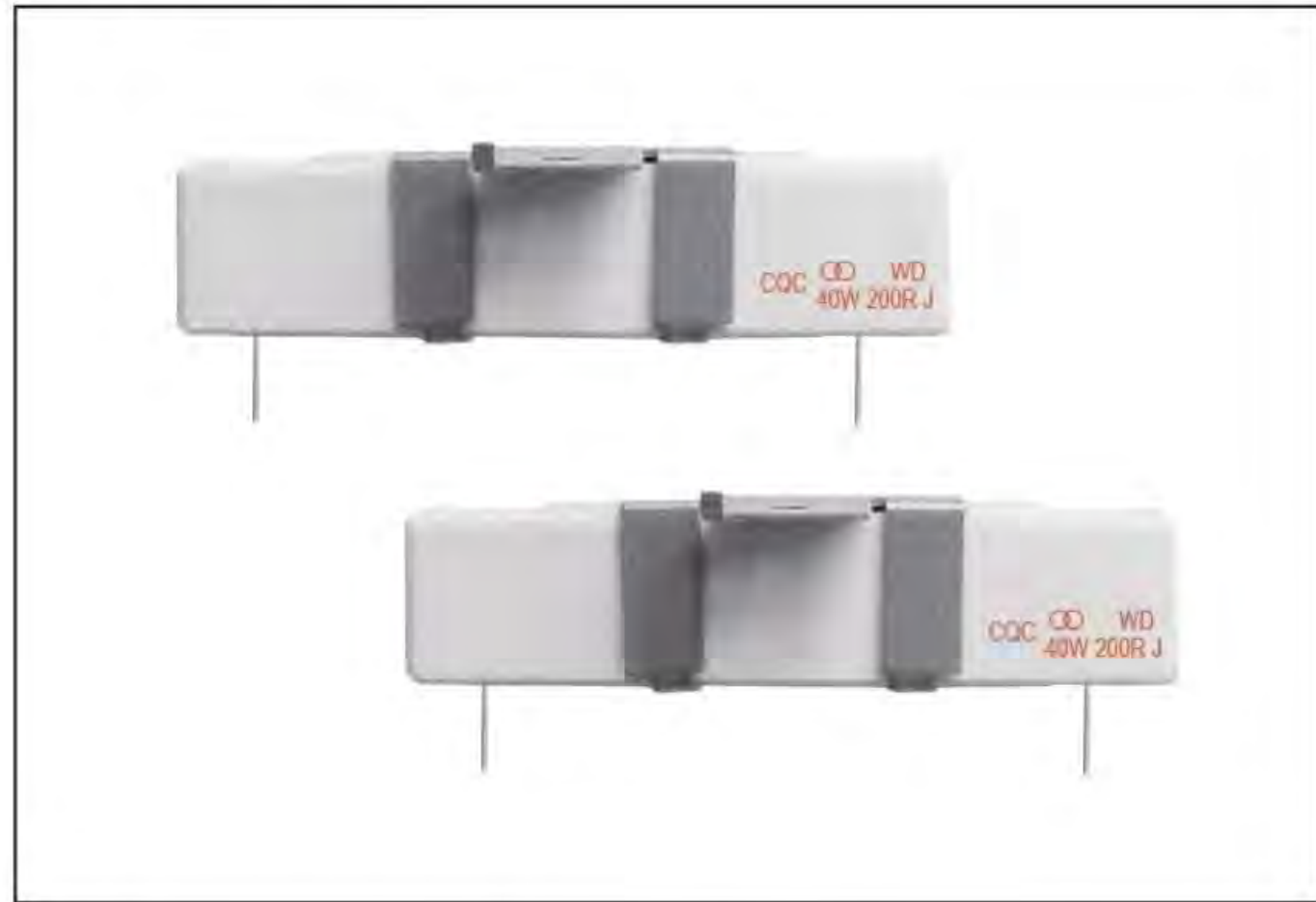
Technical Specifications

Type	Rated Power(W)	Resistance Range		Dimensions(mm)							
		RX27	RY27	L	RM	H1	H2	h	W1	W2	W
RX27(RY27) -3F/3H/3H2	3.0	R2...2K4	390R...100K	25.0±0.5	12.5	9.0	39.0/39.0/26.5	5.0/4.5	9.0±0.5	7.3	5.0/3.5
RX27(RY27) -3F/3H/3H2/3H4	5.0	R39...3K6	680R...100K	27.0±0.5	15.0	9.5	39.0/39.0/26.5/39.0	5.0/4.5	9.0±0.5	7.3	5.0/3.5
RX27(RY27) -3F/3H/3H2/3H4	7.0	R39...4K7	680R...100K	35.0±0.8	22.5	9.5	39.0/39.0/26.5/39.0	5.0/4.5	9.0±0.5	7.3	5.0/3.5
RX27(RY27) -3F/3H/3H2/3H4	10.0	R39...6K8	1K0R...100K	48.0±1.0	35.0	9.5	39.0/39.0/26.5/39.0	5.0/4.5	9.0±0.5	7.3	5.0/3.5
RX27(RY27) -3F	15.0	R51...7K5	—	48.0±1.0	32.0	12.5	47.5	5.0	12.5±0.5	10.0	5.0
RX27(RY27) -3F	20.0	R51...10K	—	63.5±1.2	47.0	12.5	47.5	5.0	12.5±0.5	10.0	5.0

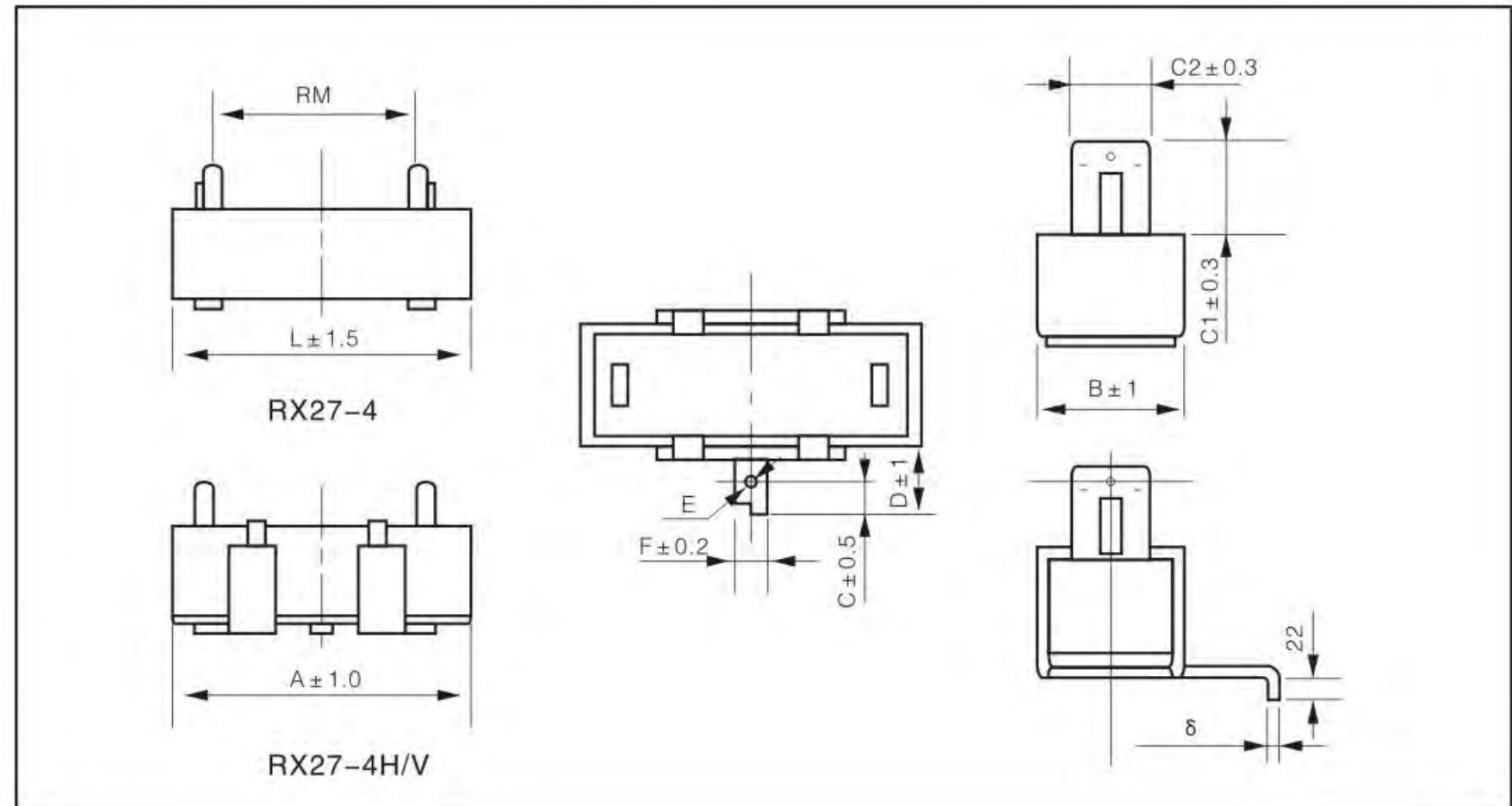
RX27 power ceramic encased wire-wound resistors



RX27-4/V



Construction(mm)



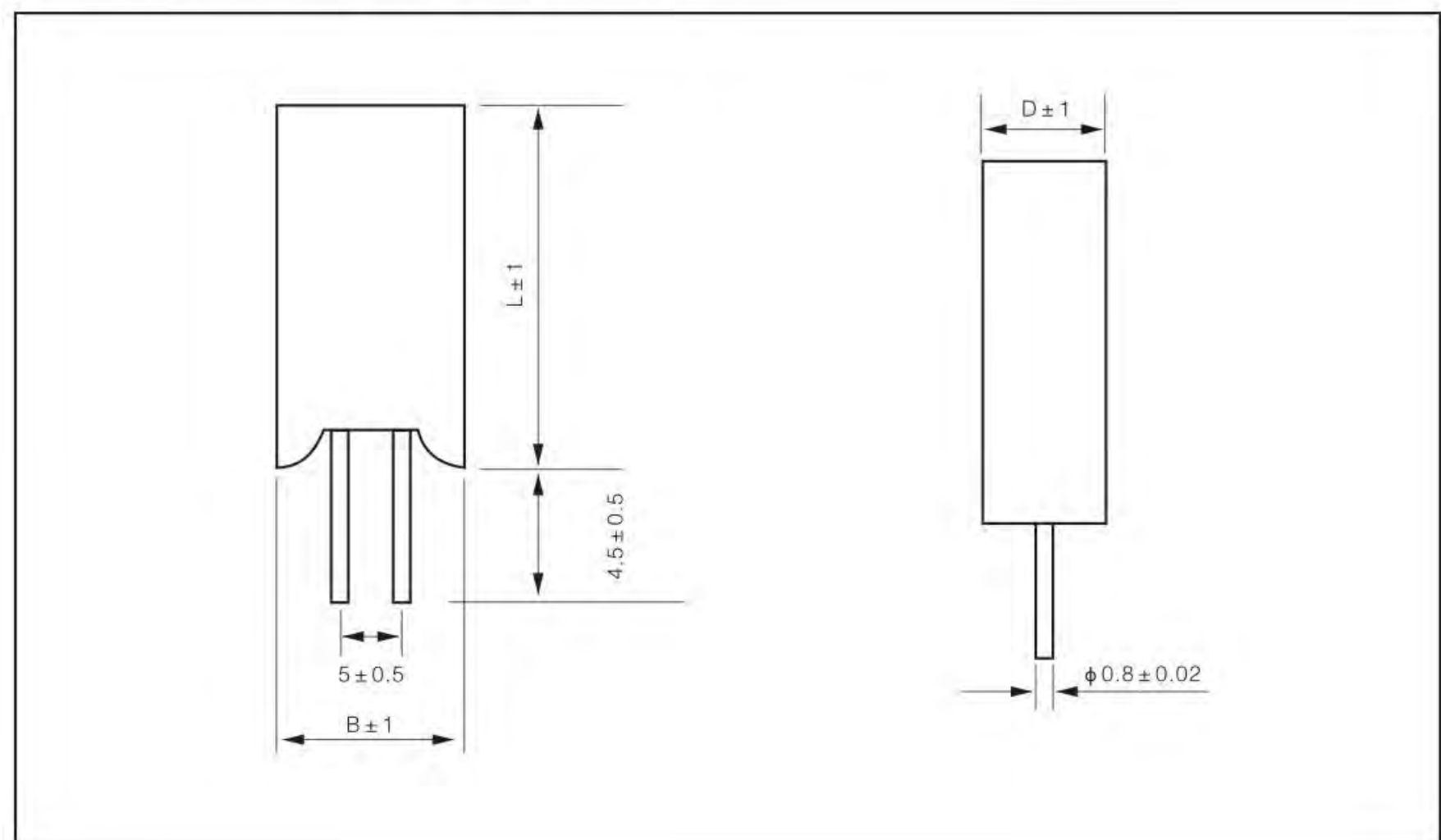
Technical Specifications

Type	Rated Power(W)	Resistance Range		Dimensions(mm)											
		Min	Max	L	RM	C1	C2	A	B	C	D	E	F	δ	
RX27-4/4V	10.0	R39	1K5	48.0	35.5 _{-1.5}	9	5	25	9.5	6.5	11.8	4.0	12	0.6	
RX27-4/4V	15.0	R51	2K4	48.0	34.0 _{-1.5}	9	6/4.8	25	12.5	6.5	12.5	4.0	12	0.6	
RX27-4/4V	20.0	R51	2K4	63.5	48.0 _{-2.0}	9	6/4.8	25	12.5	6.5	12.5	4.0	12	0.6	
RX27-4/4V	25.0	R62	2K4	63.5	46.5 _{-2.0}	12	7.5/6.3	25	16	6.5	13.8	4.2	12	0.8	
RX27-4/4V	30.0	R62	8K2	75.0	56.0 _{-2.5}	12	7.58/6.3	40	19	8	18	4.2	18	0.8	
RX27-4/4V	40.0	R62	10K	90.0	71.0 _{-3.0}	12	7.5/6.3	40	19	8	18	4.2	18	0.8	

RX27-5



Construction(mm)



Technical Specifications

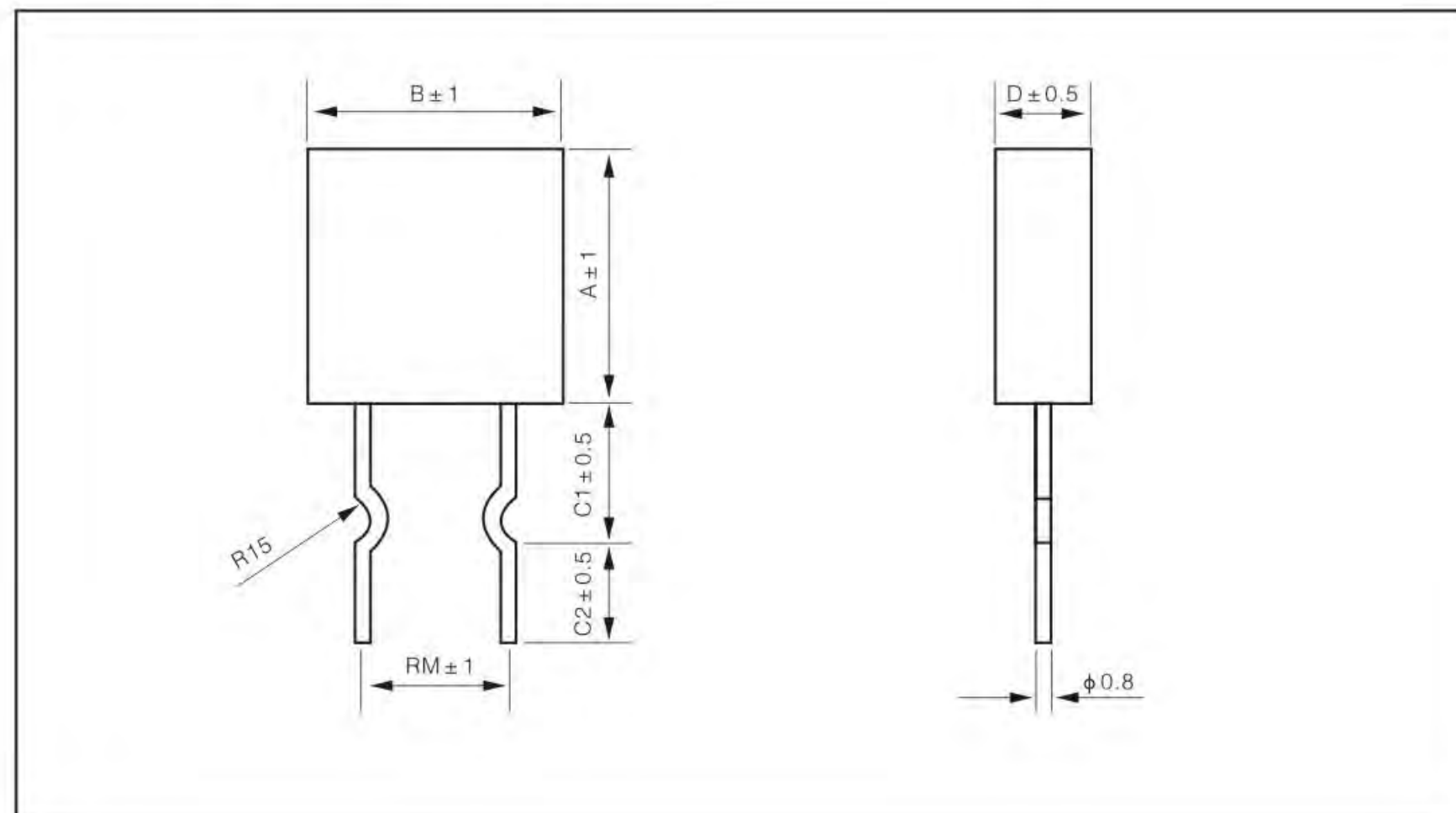
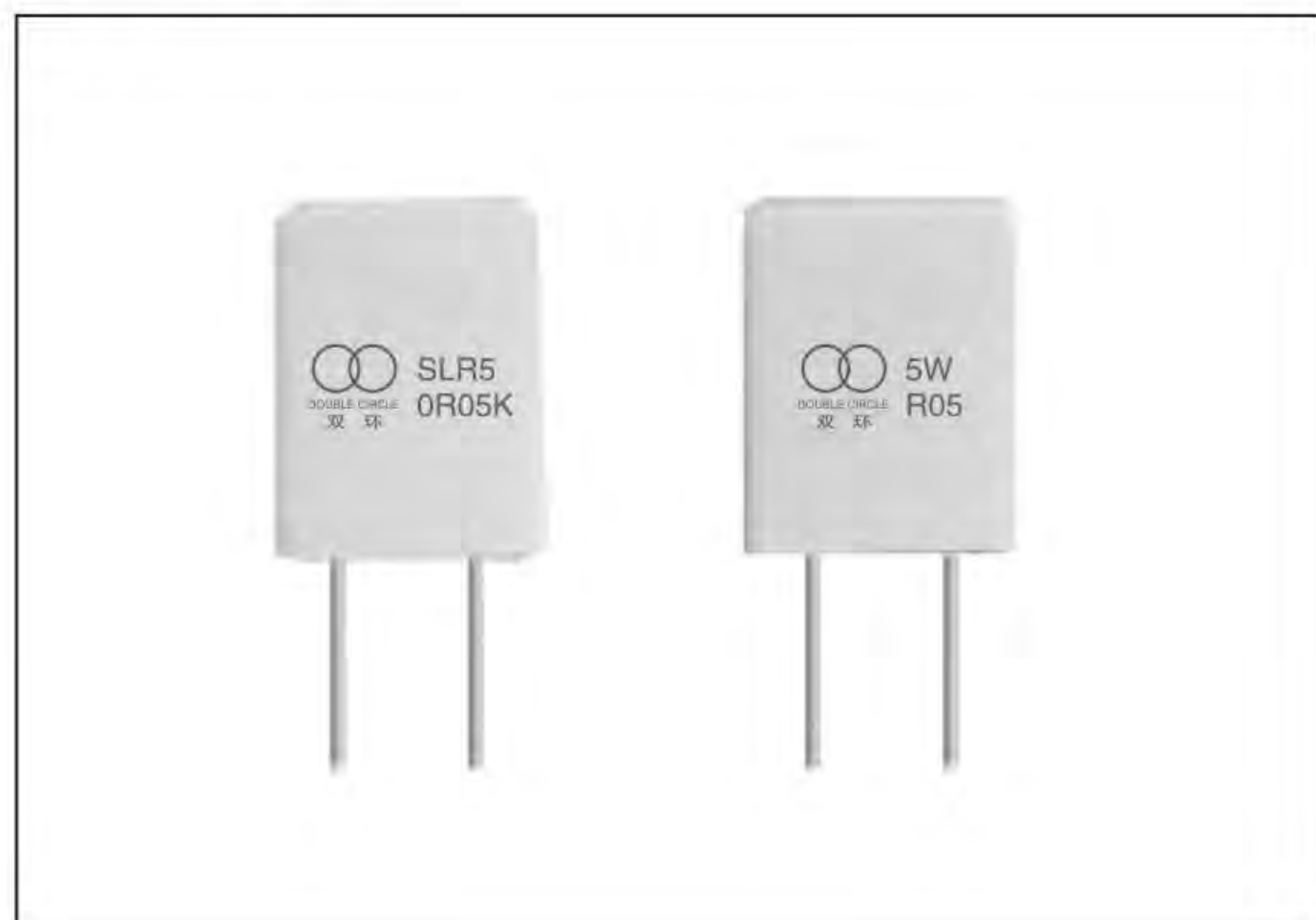
Type	Rated Power(W)	Resistance Range		Dimensions(mm)		
		Min	Max	L	B	D
RX27(RY27)-5	2.0	R50...1K0	390...100K	20.5	11	7
RX27(RY27)-5	3.0	R50...2K2	680...100K	25.0	12	8
RX27(RY27)-5	5.0	R50...2K2	680...100K	26.0	13	9
RX27(RY27)-5	7.0	1R0...6K2	1K...100K	39.0	13	9.5
RX27(RY27)-5	10.0	1R5...10K	1K...100K	51.0	13	9.5

RX27 power ceramic encased wire-wound resistors



RX27-6

Construction(mm)



Technical Specifications

Type	Rated Power(W)	Resistance Range		Dimensions(mm)					
		Min	Max	A±1	B±1	C1±0.5	C2±0.5	D±0.5	Rm±1
RX27-6	2W	R10	910R	12	18	8	5	5	7
RX27-6	3W	R10	910R	13	18	8	5	6	8
RX27-6	5W	R10	1KO	15	18	8	5	6	9

Performance

Test Item	Specifications	Test Methods
Solderability	Solder wets the outlet end and can flow freely, and the tin area on the outlet end is greater than 95%	235°C ± 5°C , 2s ± 0.5s
Short term overload	$\Delta R \leq \pm (1\%R \pm 0.05 \Omega)$	$\sqrt{10RP}$ 5s
Terminals Strength	No visible damage to appearance $\Delta R \leq \pm (1\%R \pm 0.05 \Omega)$	Pull, bend: 2 times, twist: 180 degrees 2 times
Welding heart-resistant property	No visible damage to appearance $\Delta R \leq \pm (1\%R \pm 0.05 \Omega)$	260°C ± 5°C 10s ± 0.5s
TCR	± 500ppm/°C	GB/T 5729-2003 Article 4.8
Reduce Power Loss	When the ambient temperature rises from 70 °C to 275 °C, the allowable load of the resistor is reduced from 100% of the rated power to 0%	
Long Term Life	$\Delta R \leq \pm (5\%R \pm 0.1 \Omega)$ insulation resistance $\geq 1G \Omega$	1000h , 1.5h energized, 0.5h de-energized
surface temperature rise	$\leq 210^\circ\text{C}$	Apply rated voltage to achieve thermal stability

How To Order

Example

RX27	1	2W	10Ω	± 5%	± 250(10 ⁻⁶ /K)	box
Type	Style	Power	Nominal Value	Tolerance	TCR	Packaging
RX27	1 3 4 5 6	2W ~ 40W	10Ω	± 5%	± 250(10 ⁻⁶ /K)	box