RX20/T Wirewound Power Resistor

8-500 W · Enamel-coated ceramic tube · Adjustable / non-inductive options

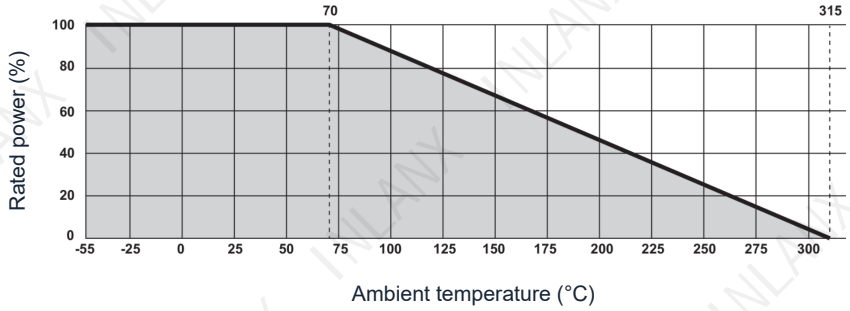


RX20 (left) and RX20-T (right: adjustable version with mounting brackets)

Features

- Excellent high-temperature load performance.
- Resistant to moisture and corrosion.
- T series: adjustable, with metal mounting clips.
- N series: non-inductive winding.
- Optional mounting kits available.

Derating Curve



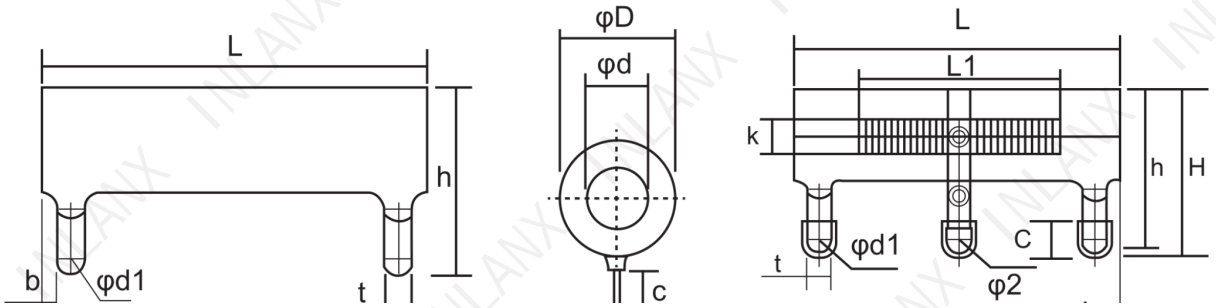
Derating curve: ambient temperature (°C) versus percentage of rated power.

Full-load operation from -55°C to +70°C. Power derates linearly above +70°C, reaching zero at +315°C.

Main Technical Specifications

Model	Rated power (W)	RX20 Resistance range (Ω)	RX20T Resistance range (Ω)	Tolerance	Temperature coefficient (ppm/°C)
RX20/RX20T	8	1R-5K		J (±5%) K (±10%)	±250 ppm/°C
	10	1R-11K	1R-100R		
	15	1R-11K	1R-150R		
	20	1R-22K	1R-200R		
	25	1R-25K	1R-200R		
	30	1R-30K	1R-300R		
	40	1R-40K	1R-500R		
	50	1R-51K	1R-1K		
	75	1R-75K	1R-1K		
	100	1R-100K	1R-5K		
	150	1R-100K	1R-5K		
	200	1R-100K	1R-5K		
	250	1R-100K	1R-5K		
	300	1R-100K	1R-5K		
	400	1R-100K	1R-5K		
	500	1R-100K	1R-5K		

Dimensions (mm)



RX20 (left: fixed) / RX20-T (right: adjustable with brackets)

Model	Power (W)	L	D	d	H	h	L1	K	b	t	d1	C	Weight RX20 (g)	Weight RX20T (g)
	8	35±1.5	14±2	5.5±0.5		28.5±2.5	-	-					23	
	10	41±1.5			31		30						27	34
	16	45±1.5	16±2	8±0.5	34	31±2.5	23						36	42
	20	50±2					30	6±2	3.5±0.8	4.5	2		44	52
RX20(T)	25	50±2					30					8±1.5	57	67
	30	70±2.2	20±2.5	12±0.8	39	35±2.5	44						80	90
	40	90±2.2					57						98	110
	50	90±2.4					60						132	144
	75	140±3.2	28±3	20±1.1	47	43±3	110	7±2	4.5±1	6	2.5		253	265
	100	170±3.5					140						286	298
	150	215±4					185						385	397
	200	200±2	40±3	25±0.7	60.5±1.2	58±2	160+3/-2	7±2				11±1.5	475	495
RXG20(T)	200/250	267±2	28±2	16±0.3	50±2	47±2	210+3/-2		8±1	8	4.5		510	530
	300	267±2	35±2	20±0.3	58±2	58±2		8±2					630	650
	400	250±2	50±2	30±0.2	76.5±1.5	79±3	180+3/-2	10±2					1000	1020
	500	300±2					230+3/-2		16	8	17±1.5		1340	1360

Inspection Items and Performance Requirements

Inspection item	Performance requirement	Test method
Solderability	≥95%	235±5°C, 2±0.5 s
Terminal strength	No mechanical damage	20 N, 30 s
Steady damp heat	≤±(2%R + 0.05 Ω)	40±2°C, RH 93±3%
Vibration	≤±(1%R + 0.05 Ω)	10-1,000 Hz, 0.75 mm, 200 m/s²
Bump	≤±(1%R + 0.05 Ω)	40-80 bumps/min
Surface temp. rise	≤+275°C	Rated power (PR)
Endurance at 70°C	≤±(5%R + 0.05 Ω)	70°C, PR, 1,000 h
Overload	≤±(1%R + 0.05 Ω)	10 × rated power (PR), 5 s