Acknowledgement document number APPROVAL SHEETNO:	QD-SQ-A-1

Acknowledgement document APPROVAL SHEET

product name NAME OF PRODUCTION	High power winding resistor High-power Wound Resistor
size of product SPECIFICATION OF PRODUCTION	RX20

The product structure, external size, performance and test standards of our company are recorded in detail, and samples are attached. Please kindly confirm the test and review and acknowledge them. Please sign and seal to confirm, and please reply one copy to our company.

The product structure, outer scale, performance and test standard of our company are recorded in the inside with samples attached. Please be glad to test and review them and acknowledge them. Please sign for confirmation and reply one copy to our company.

Confirm and sign:

Confirm and sign

order of the editi	A1	examine and verify AUDITING	check CHECK	fabrication PRODUCER

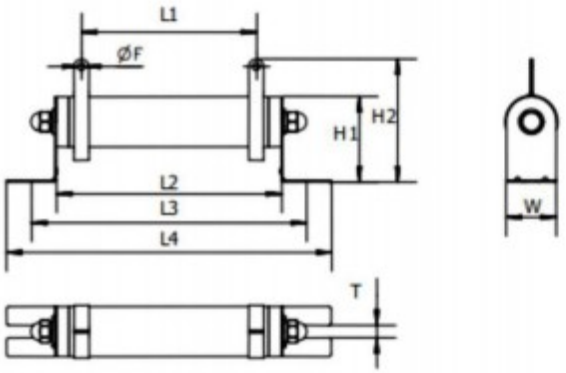
on RE V				
First edition date ORIGIN REV DATE		Zhang Haijun	Tang Po Shan	Gang Wu

绕线型 Wirewound

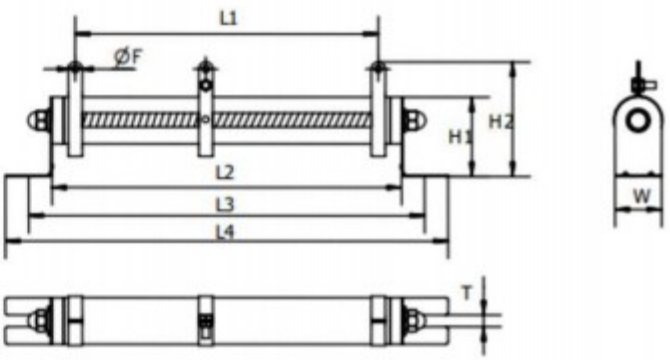
波浪型 Ribbon wirewiund resistor

可调型 Adjustable type

固定型 Fixed Type:



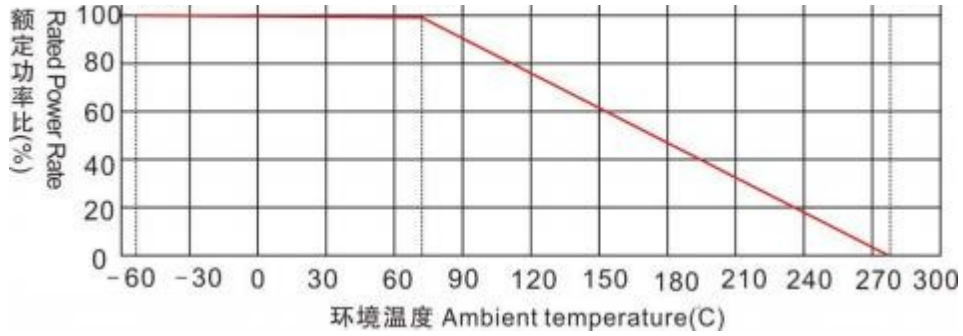
可调型 Adjustable type



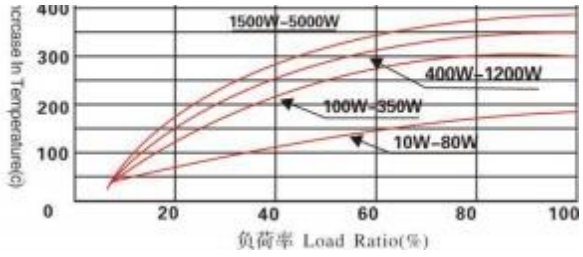
I. Wound resistor (unit: mm)

Rated power Rating	L1±3	L2±3	L3±3	L4±3	H1±3	H2±3	T±1	W±1	F±1
10W	30	45	66	90	27	41	5	16	3
20W	34	50	75	98	35	55	5	20	3
30W	54	70	96	120	35	55	5	20	3
40W	74	90	116	140	35	55	5	20	3
50W	75	90	120	145	48	68	7	28	5
80W	120	140	165	192	48	68	7	28	5
100W	150	170	195	220	48	68	7	28	5
150W	195	215	243	270	48	68	7	28	5
200W	245	267	293	320	48	68	7	28	5
300W	245	267	295	340	64	90	7	40	6
400W	310	330	355	405	64	90	7	40	6
500W	310	330	360	410	68	90	8	50	7
800W	380	400	440	505	107	144	7	60	7
1000W	410	430	470	535	107	144	7	60	7
2000W	410	430	480	545	112	144	8	70	7
3000W	410	430	480	545	126	162	8	80	7
4000W	410	430	480	545	130	168	9	100	7
5000W	500	533	588	653	130	168	9	100	7
8000W	610	640	695	760	130	168	9	100	7
10000W	815	855	910	975	130	168	9	100	7

Rated power decline diagram



III. Surface temperature rise



IV. Performance Testing

test item	test condition	function
temperature coefficient	Measure the resistance value at room temperature and room temperature +100℃ respectively and calculate the change of resistance value per degree.	±350ppm/℃
Short time overload	Apply the voltage of 10 times the rated power (√ 10PR) or the maximum load voltage (whichever is smaller)	ΔR≤±（2%R0+0.05 Ω）
Strength of lead end	R≤±(1% R+0.05Ω)	Pull 20N
solderability	Immersion in a 260±10℃ tin furnace for 2-3 seconds.	The area of soldering tin covers more than 95%
Resistant to welding heat	ΔR≤±(1% R+0.05Ω)	260±5℃ 10±1s
temperature cycle	Place at-55℃ for 30 minutes, then at +25℃ for 10-15 minutes, then at +275℃ for 30 minutes, and then at +25℃ for 10-15 minutes, for a total of 5 cycles.	ΔR≤±（1%R0+0.05 Ω）
Durable wet load life	In the constant temperature and humidity box with temperature of 40±2℃ and relative humidity of 90-95%, the rated voltage or maximum working voltage (whichever is smaller) is applied for a total of 1000 hours (1.5 hours on, 0.5 hours off).	ΔR≤±（5%R0+0.05 Ω）
Temperature and load life	Apply the rated voltage or maximum working voltage (whichever is smaller) to the 70±2℃ constant temperature and humidity chamber for 1000 hours (1.5 hours on, 0.5 hours off).	ΔR≤±（5%R0+0.05 Ω）
noninflammability	Apply the AC load at 5 times, 10 times and 16 times of rated power respectively for 5 hours.	There should be no visible flame
Surface temperature rise	≤350℃	Applying rated power
Insulation resistance value	1000M Ω	1000V DC