Precision Type Metal Clad Resistors

- Ideal for current sensing applications.
- Small size, high power and ultra precise.
- Ultra precise resistors in low resistance value are available.
- Low temperature coefficient.
- Dielectric and insulation is strongly resistant to moisture and solvents.

GENERAL SPECIFICATIONS

Model	Power Rating[W]		Terminal	Resistance Range[Ω]							Maximum Current Running (A)	Max. Working (V)	Dielectric Withstanding Voltage
	*Chassis Mounted	In Free Air		Resistance Tolerance Minimum Resistance						Maximum Resistance			
				±1% (F)	±0.5% (D)	±0.1% (B)	±0.05% (A)	±0.02% (Q)	±0.01% (T)				
RH-5E	2	1	2	0.02	0.1	1	2	20	30	150K	10	300	500V
RH-10E	4	2	2	0.02	0.1	0.3	1	10	20	300K	14	300	1000V
RH-10E4	4	2	4	0.02	0.02	0.05	0.1	0.2	20	300K	14	300	
RH-25E	6	3	2	0.02	0.1	0.5	1	10	20	600K	17	400	
RH-25E4	6	3	4	0.01	0.01	0.03	0.05	0.1	10	600K	24	400	
RH-50E	10	4	2	0.02	0.1	0.5	1	10	20	3M	22	1,300	2000V
RH-50E4	10	4	4	0.01	0.01	0.02	0.05	0.1	10	3M	25	1,300	
RH-50M	10	4	2	0.01	0.05	0.3	0.5	-	-	2M	31	1,300	
RH-50ML	10	4	4	0.001	0.005	0.01	0.02	0.05	5	2M	100	1,300	
RH-75M	20	8	2	0.01	0.05	0.3	0.5	10	20	150K	44	1,300	4500V
RH-75ML	20	8	4	0.001	0.001	0.001	0.005	0.01	1	150K	140	1,300	
RH-100M	30	12	2	0.01	0.05	0.1	0.3	10	20	350K	50	1,400	
RH-100ML	30	12	4	0.001	0.001	0.001	0.005	0.01	1	350K	170	1,400	
RH-100M4	30	12	4	0.001	0.001	0.001	0.005	0.01	-	0.5	170	1,400	
RH-250M	50	20	2	0.01	0.05	0.1	0.3	10	20	600K	70	1,700	
RH-250ML	50	20	4	0.001	0.001	0.001	0.005	0.01	1	600K	200	1,700	
RH-250M4	50	20	4	0.001	0.001	0.001	0.005	0.01	-	0.5	200	1,700	

Terminal	M	ML	E	E4	M4
Configuration					

CHARACTERISTICS

Values in [ ] mean change in Ω after test

Operation Temperature Range		-55℃ ~ +125℃
Insulation Resistance	Over 1000M Ω	DC500V
Heat Resistance	±1.0%	150℃, 2hours
Vibration	±0.1%	10Hz-55Hz-10Hz(1minute) 2hours each of paralleled and right angle
Load Life	±0.2%	90minutes on, 30minutes off, 2000hours
Short Time Overload	±0.1%	2 x Power rating, 5seconds
Dielectric Withstanding Voltage	±0.02%	1 minute

TCR

Resistance[Ω]		1≤R	0.1≤R<1	0.05≤R<0.1	0.01≤R<0.05	0.005≤R<0.01	0.001≤R<0.005
TCR (ppm/℃)	2 Terminal Type	±30	±50	±50	±100	-	-
	4 Terminal Type	±30	±30	±30	±50	±50	±50

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SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD

DERATING CURVE

ORDERING PROCEDURE EXAMPLE

Ordering Example	Model	Tolerance	Resistance	
RH100M4 B0R5	RH100M4	B(±0.1%)	0.05Ω	Inductive
RHF100M4 A0R5	RHF100M4	A(±0.05%)	0.05Ω	Non Inductive

Note :
1. This RH/RHF series is designed for chassis mounting style and noted the following.
(1) In order to mount the resistor tightly to chassis, mounting surface should be completely smooth.
(2) On the mounting surface, -a product like heat grease should be liberally applied.
(3) For RH(F)50M, RH(F)70, RH(F)250, use solderless terminal for the terminal and cable connection and fasten the nut using the following torques.
RH(F)50M : 0.6N·m MAX, RH(F)75 : 1.18~1.57N·m, RH(F)100, RH(F)250 : 1.96~2.35N·m (M4 terminal : 0.60~0.75N·m)

DIMENSIONS[mm]

*On test chassis mounted: 1)RH(F)-5/10: 152 x 102 x 51 x 1mm / 2)RH(F)-25/50: 178 x 127 x 51 x 1mm / 3)RH(F)-75~250: 305 x 305 x 3mm

Model	L1±1	L2±0.8	l1±0.8	l2±0.8	D±1	H±0.8	d±0.3	c±0.8	h1±1	h2±0.5	a±2	b	P±1
RH-5E	15.3	16.4	11.3	12.5	8.5	8	2.3	2	4	1.6	-	-	-
RH-10	19	20	14.3	15.9	10.8	10	2.4	2.4	5.3	2.4	-	-	5
RH-25	27	28	18.3	19.8	13.5	14	3.2	4.4	7.1	2.4	-	-	6
RH-50	49.2	29.2	39.7	21.4	15.1	16	3.2	4.8	8	2.5	13	M4	7
RH-75	66	52	56	42	32	33	4.8	5	16	3.2	22	M5	-
RH-100	88.9	71.4	69.9	57.2	46	44.5	4.8	9.5	19.5	4.8	25	M6	-
RH-250	114.3	76.2	98.4	63.5	54	55.6	4.8	7.9	25.4	6.4	31	M6	-