



RH

METAL CLAD, WIRE WOUND, CEMENT ENCASED RESISTORS

RH25C and RH50C are aluminum housed, metal clad resistors. These models come in standard RH25, 50C or non-inductive RH25, 50 C N windings. The cement molding construction conforms to RoHS guidelines. Construction is completely welded. These models also mount on chassis to utilize heat sink cooling. RH25/50C exhibit high stability at conventional power.

GENERAL SPECIFICATIONS

Model	Element Type	Rated Power		Resistance Range		Temperature coefficient [ppm/C] (-55C,25C,250C)				Resistance Tol.	Min Ohmic In Value	
		With Heat Sink	In Free Air	Inductive	Non-Inductive	-15C, 25C,105C	Measuring Temp. -55, 25C, 250C					
RH25 C	Wire Wound	20W	8W	.022Ω-25KΩ	0.1Ω-10KΩ	+200	0.022Ω-0.09Ω	0.1Ω-0.976Ω	1Ω-19.6Ω	20Ω-	+0.1(B) +0.25(C) +0.5(D)	1Ω- 0.4Ω- 0.2Ω-
RH50 C	Wire Wound	30, 50W*	10W	.048Ω-50KΩ	0.2Ω-20KΩ	/	0.048Ω-0.09Ω	0.1Ω-0.976Ω	1Ω-19.6Ω	20Ω-	+1(F) +2(G) +5(J)	0.1Ω- 0.05Ω- 0.02Ω-
FRH25 C	Thick Film	15W	5W	/	2Ω-2MΩ	2Ω-2MΩ	/	/	/	/		
FRH50 C	Thick Film	25W	8W	/	2Ω-2MΩ	2Ω-2MΩ	/	/	/	/		



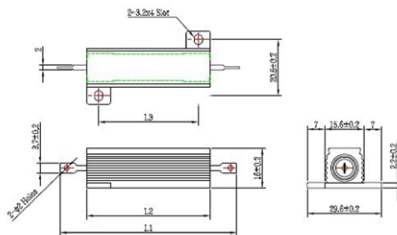
*30W on heat sink size : AL 178 X 127 X 51 X 1t, 50W on heat sink size : AL 305 X 305X X 2t

CHARACTERISTICS

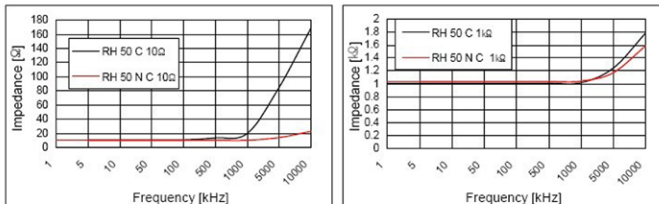
Temperature Range	-55C to 250C
Insulation Resistance	10MΩ minimum (at more than 100Ω)
Dielectric Strength	+[-0.2%+0.05Ω] AC2000V for 1 min, Max leakage current : 2mA
Short Time Overload	+[-0.5%+0.05Ω] Rated power X 5 for 5 secs
Thermal Shock	+[-0.5%+0.05Ω] Power rating 30 min, -55C 15 to 30 min
Moisture Resistance	+[-0.5%+0.05 Ω] 40C, 95% RH, DC100V case to terminal (500hrs.)
Load Life	+[-1%+0.05Ω] Power rating 90 min on, 30 min off, 1000 hours

TECHNICAL INFORMATION

Model	Dimensions [mm]		
	L1	L2	L3
RH 25 C	49.4	27.1	18.3
RHC 50 C	70.8	49.3	39.7

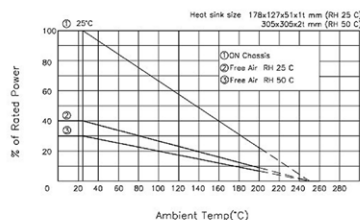


Frequency Characteristic Curves

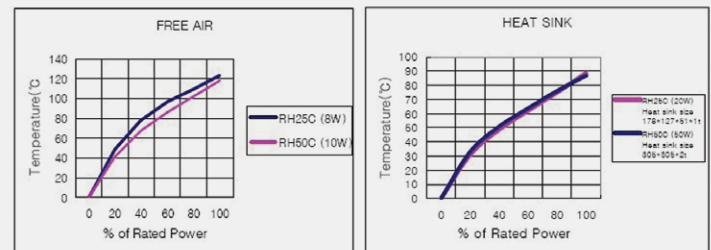


RHC resistors have an operating temperature range of -55C to 250C Derating is required for reduced chassis mounting area and for high ambient temperatures. The following curves apply to operation of unmounted resistors.

Heat sink size [mm]:
178 X 127 X 51 X 1t (RH 25 C)
305 X 305 X 2 (RH 50 C)



Surface Temperature Rise vs Power Rating



Ordering Example

