RDF

HERMETICALLY SEALED ALUMINIUM HEAT SINK CASE RESISTOR

FROM 0.75 TO 1.5 KW

DATASHEET REV 0510

MAIN FEATURES

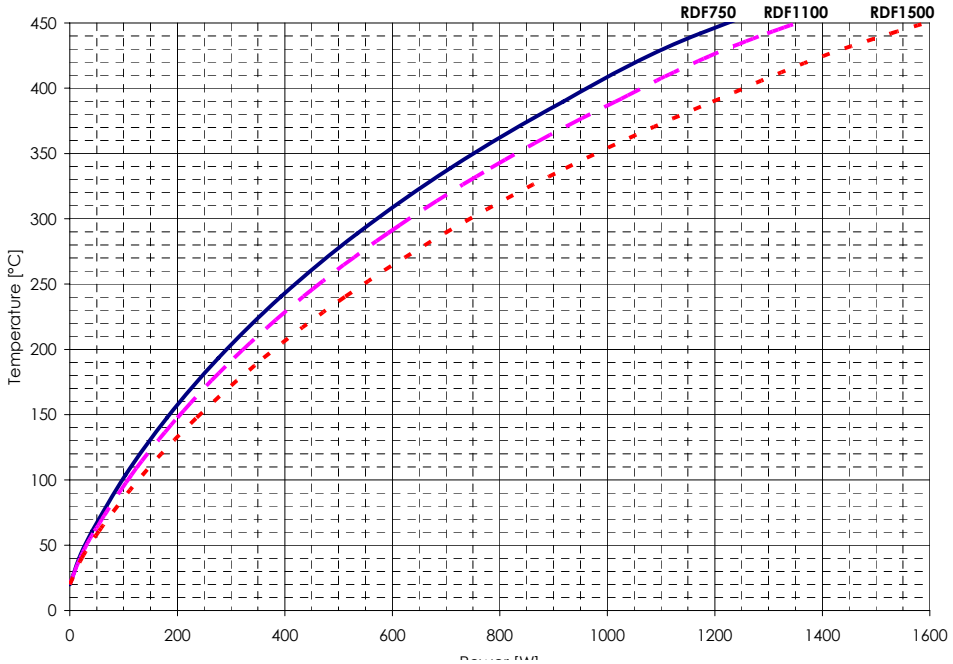
Description	RDF is manufactured into an heat sink case and it is hermetically sealed by cement and aluminium seals
Market	Industrial Automation, Energy Conversion
Applications	Dynamic braking, Charge Discharge Capacitors
Mechanical characteristics	Protection Degree IP54; helix wire wound into ceramic support filled with fused alumina
Special version	Thermal switch, Customized cable
Active materials	Available: CuNi44, Nickel-Chrome Alloys
Notes	Suitable for forced cooling
Overload conditions and power	Please refer to catalogue DBR Technical notes

Parameter	condition	ID	Unit	Value
Rated power	T_a=25°C	P_{max}	W	see table
Power 205°C	T_a=25°C	P_{nom}	W	see table
Min resistance	T_a=25°C	R_{min}	Ω	see table
Max resistance	T_a=25°C	R_{max}	Ω	see table
Limit voltage		V_{lim}	V	2.000
Surface resistor temp.	T_a=25°C	T_{nom}	°C	see graph
Resistance tolerance	T_a=25°C		%	±5
Temp. Coefficient Resistance		TCR	10^{-6}/°C	20÷240
Dielectric strenght	50Hz; 60"	V_{iso}	V_{rms}	3.500
Insulation resistance	1.000 VDC	R_{iso}	MΩ	> 1.000
Thermal time constant		t	sec	1.500
Max Overload		P	kW	see graph

ELECTRICAL CHARACTERISTICS

ID Unit	P_{max} W	P_{nom} W	R_{min} Ω	R_{max} Ω
RDF 750	750	425	0,50	100
RDF 1100	1.100	470	0,70	160
RDF 1500	1.500	550	0,90	160

Surface Temperature Characteristics



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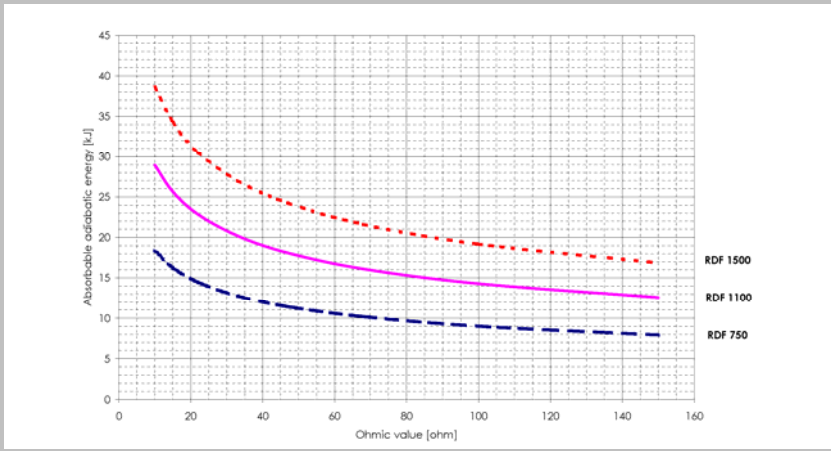
Absorbable adiabatic energy graph



MECHANICAL DATA

Dimensions [mm]	L	Weight [gr]
RDF 750	245	2.600
RDF 1100	310	3.500
RDF 1500	365	4.200

DRAWING