RoHS compliant

Wirewound Resistors, Aluminium Housed, Chassis Mount

Specifications

Type		RE 605	RE 605N	RE 610	RE 610N	RE 615	RE 615N	RE 630	RE 630N	RE 640	RE 640N	RE 650	RE 650N
Nominal Power rating P_{25}	W	See page 2											
Resistance range	Ω	See page 2											
Tolerances	%	See page 2											
Temperature coefficient	$10^{-6}*K^{-1}$	0R1 – 0R99 ± 100 1R – 9R9 ± 50 ≥ 10R ± 20											
Max. working voltage	V_{RMS}	$\sqrt{P_{70} * R}$											
Insulation voltage (1min.)	V_{RMS}	1000						2000		4500			
Insulation resistance	Ω	> 10M											
Derating linear	°C	70…250 (0W)											
Climatic category		55/200/56											
Temperature range	°C	-55 … 250											
Failure rate (Total, $\dot{\vartheta}$,max, 60% cont.lev.)	10^{-9} h^{-1}	appr. 10 depends on value											
Endurance (P_{70},70°C, 1000h)	[ΔR/R] %	± 5,0 average											
Damp heat, steady state (40°C, 93% r.h., 56d)	[ΔR/R] %	± 5,0											
Climatic sequence	[ΔR/R] %	± 2,0											
Terminal strength	[ΔR/R] %	± 0,5											
Terminal Tensile Strength	N	50											
Resistance to soldering heat (260°C, 10s)	[ΔR/R] %	± 0,5											
Solderability	s	2,5 Flowtime; solderglobule test, IEC 60068-2-20-T											
Marking		Printed in clear											

Features:
Molded construction for environmental protection Complete welded construction.Meets applicable requirements of MIL-PRF-18546 Available in non-inductive styles with Aryton Perry winding for lowest reactive components (affix N) Mounts on chassis to uilize heat-sink effect. Excellent stability in operation

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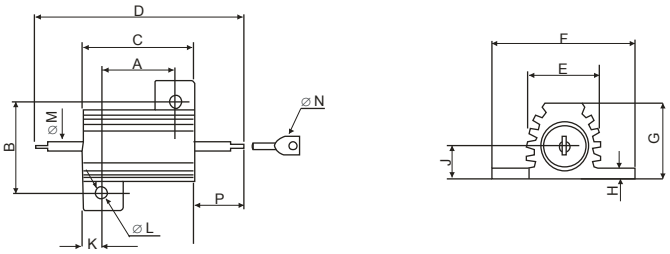
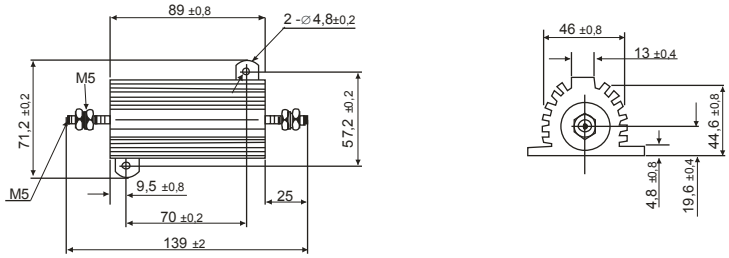
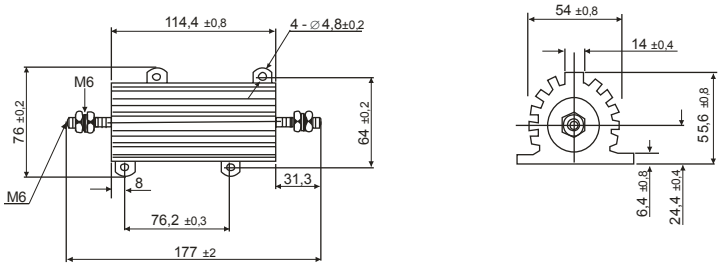
RE605,610,615,630
RE605N,610N,615N,630N



RE640,640N



RE650,650N



Type	Dimensions (mm)													
	A ±0.1	**B** ±0.1	**C** ±0.5	**D** ±1.5	**E** ±0.4	**F** ±0.1	**G** ±0.4	**H** ±0.2	**J** ±0.2	**K** ±0.2	**L** ±0.1	**M** ±0.02	**N** ±0.1	**P** ±0.1
RE605	11.2	12.5	15.2	28.6	8.5	16.4	8.1	1.7	3.8	2	2.4	1.5	1.3	6.7
RE610	14.2	15.9	19	34.9	10.7	20.3	9.9	1.9	4.2	2.4	2.4	2	2.2	7.95
RE615	18.2	19.8	27	49.2	14	27.4	13.9	1.9	5.9	4.4	3.2	2	2.2	11.1
RE630	40	21.4	50	70.6	16	29	15.5	2.2	6.6	5	3.2	2	2.2	10.3

Type	MIL-PR	Rated power (W) P_{25}		Resistance range			Packing unit
	Type	Civil	Military	±0.25%	±0.5%	±1%, ±5%, ±10%	
RE605	RE60G	7.5 (5)	5	R5 … 1K2	R1 …1K2	R1 ... 3K3	280
RE605N	RE60N	7.5 (5)	5	R5 … 300R	R5 ... 500R	R1 ... 750R	280
RE610	RE65G	12.5 (10)	10	R5 ... 2K7	R5 ... 2K7	R1 ... 5K6	160
RE610N	RE65N	12.5 (10)	10	R5 ... 700R	R5 … 900R	R1 ... 1K	160
RE615	RE70G	25	20	R5 ... 3K9	R5 ... 3K9	R1 ... 9K	60
RE615N	RE70N	25	20	R5 ... 1K5	R5 ... 2K	R1 ... 3K	60
RE630	RE75G	50	30	R5 ... 5K6	R5 ... 5K6	R2 ... 15K	30
RE630N	RE75N	50	30	1R ... 2K7	1R ... 3K	R5 ... 4K	30
RE640	RE77G	100	75	3R ... 12K	3R ... 15K	1R ... 20K	1
RE640N	RE77N	100	75	3R ... 4K7	3R ... 5K1	1R ... 6K	1
RE650	RE80G	250	120	5R ... 27K	5R ... 27K	1R ... 30K	1
RE650N	RE80N	250	120	5R ... 6K8	5R ... 7K	1R ... 8K	1

NOTE: Figures in parentheses on RE605 and RE610 indicate wattage printed on parts, new construction allows these resistors to be rated at higher wattage

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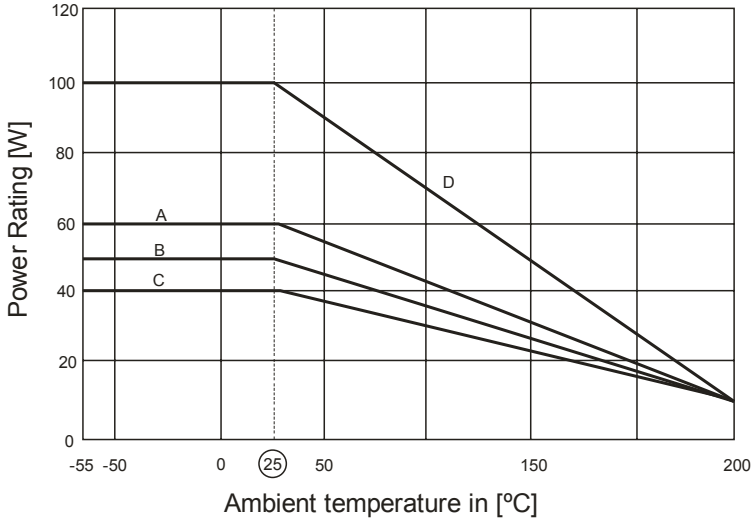
POWER DERATING CURVE

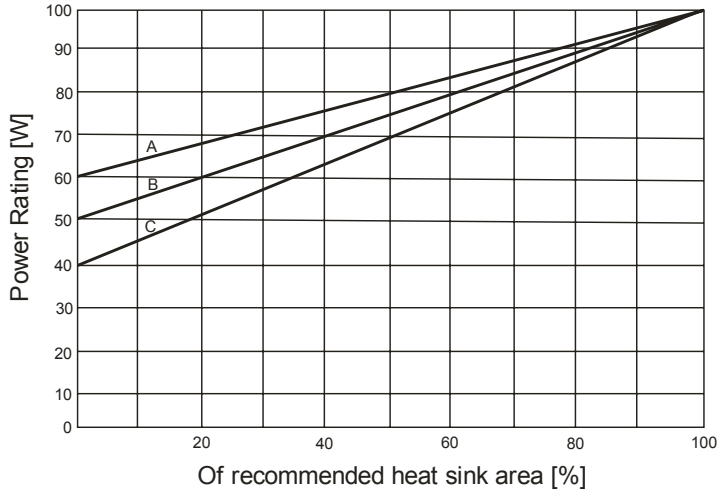


Power Rating

RE resistor wattage ratings are based on mounting to the following heat sink:
RE605, RE610:102x152x51x1mm (832cm^2)
RE615:127x178x51x1mm (1077cm^2)
RE630:305x305x1.5mm (1877cm^2)
RE640, RE650:305x305x3.2mm (1896cm^2)

D: All types mounted to recommended aluminum heat sink.
A: RE605, RE610 without heat sink.
B: RE615 without heat sink.
C: RE630, RE640, RE650 without heat sink.

DERATING OF HEATSINK



Reduced heat sink derating

Derating is also required when recommended heat sink area is reduced
A: RE605, RE610
B: RE615
C: RE630, RE640, RE650

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