RoHS

COMPLIANT

Vitreous Wirewound Power Resistor with Corrugated Ribbon



www.vishay.com

FEATURES

- Excellent power dissipation
- Robust mechanical
- Good thermal shock characteristics
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	POWER RATING W	RESISTANCE RANGE Ω	TOLERANCE ⁽¹⁾ ± %		
VC 50 x 370	1000	0.39 to 68	5, 10		
VC 42 x 362	700	0.33 to 56	5, 10		
VC 30 x 250	350	0.22 to 33	5, 10		
VC 30 x 153	220	0.18 to 22	5, 10		
VC 25 x 168	200	0.10 to 18	5, 10		
VC 25 x 138	160	0.068 to 12	5, 10		
VC 25 x 110	130	0.068 to 10	5, 10		
VC 25 x 84	90	0.068 to 8.2	5, 10		

Note

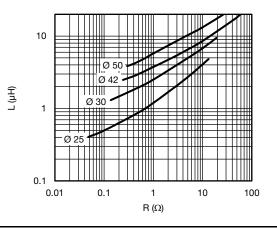
⁽¹⁾ For $R_n < 1 \Omega$

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TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	180 ppm/°C (typical)		
Operating temperature range	°C	-55 to +450		

GENERAL CHARACTERISTICS			
Core	Ceramic		
Winding	Nickel alloy		
Coating	Vitreous		
Ohmic values	E12		
Traction lug outputs	VCF version		
Collars outputs	VCN version		

INDUCTANCE VALUE AS A FUNCTION OF Rn



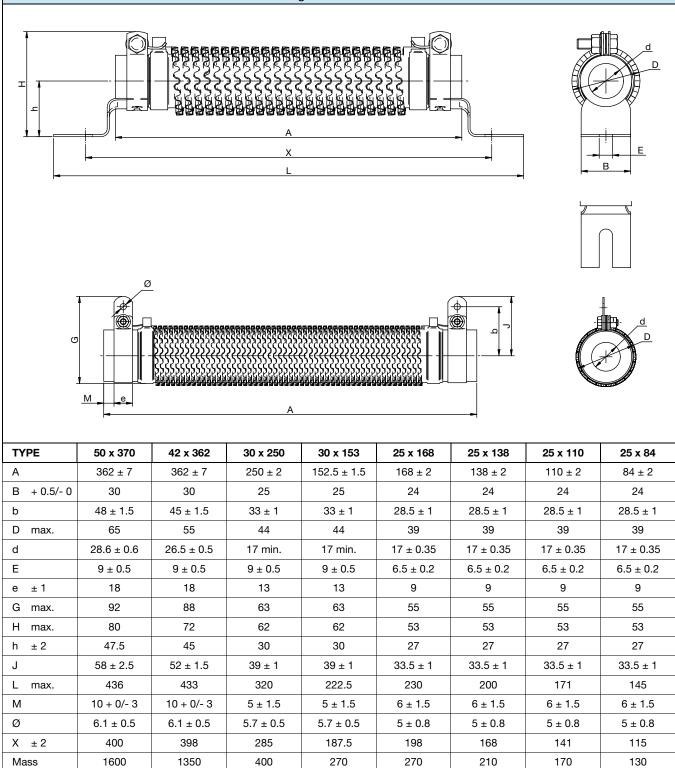
Revision: 19-Jul-17

1 For technical questions, contact: <u>mcbfixedresistors@vishay.com</u> Document Number: 32502

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DIMENSIONS in millimeters **AND WEIGHT** in g



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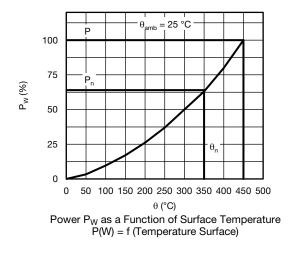
Document Number: 32502



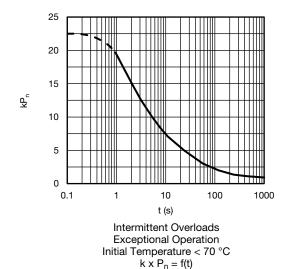
VC Vishay MCB

PERFORMANCES					
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES		
Overloads	10 Pn (temp. nom.), 5 s	2 %	1 %		
Climatic	-55 °C, 5 cycles, +200 °C	3 %	1 %		
Thermal shocks	Pn -55 °C	2 %	0.4 %		
Endurance 500 cycles Pn 90 min / 30 min		5 %	2 %		

DISSIPATION

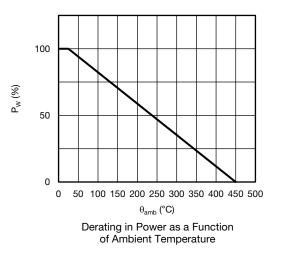


OVERLOADS

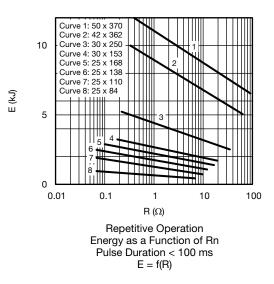


OPTIONS (Consult us)

- Other values than E12 series
- Intermediate terminals
- Insulated electrical output of fixed lugs



PERMISSIBLE ENERGY



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ORDERIN	ORDERING INFORMATION						
VC	F	30 x 250	U22	± 10 %	XXX	BO3	
MODEL	CONNECTIONS	STYLE	RESISTANCE VALUE	TOLERANCE	CUSTOM DESIGN	PACKAGING	
				± 5 % ± 10 % Other on request	Optional On request: special value, tolerance, terminals, etc.		

GLOBAL PA	GLOBAL PART NUMBER INFORMATION					
V C F 2 5 0 8 4 0 R 0 6 8 K B 9 9 9 1 2 3 4 5 6 7						
1	2	3	4	5	6	7
PRODUCT TYPE	LEADS	SIZE	RESISTANCE VALUE	TOLERANCE	PACKAGING	INDUSTRIALIZATION NUMBER
vc	F N	25084 25110 25138 25168 30153 30250 42362 50370	The first three digits are significant figures and the last specifies the number of zeros to follow, R designates decimal point. $8R2 = 8.2 \Omega$ $0R068 = 0.068 \Omega$	J = 5 % K = 10 %	B = box Box quantity depends of model and size	3 specific digits (if applicable)

EXAMPLES				
MODEL	DESCRIPTION	PART NUMBER		
VCF	VCF 25X138 U068 10 % 999 BO3	VCF251380R068KB999		
VCN	VCN 25X168 U1 10 % B03	VCN251680R10KB		



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