OVSF

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Vishay Milwaukee

Wirewound Resistors, Industrial Power, Tubular, Flat, Oval, Fixed, OVSF



FEATURES

 Terminal bands are spotwelded onto the insulated core and resistance-alloy wire is precisely wound onto the oval core



RoHS

COMPLIANT

- The wire is spotwelded to the terminal bands and then "locked" onto the core with a silicone or cement coating
- Available as fixed and adjustable resistors (for adjustable Oval Resistor see <u>www.vishay.com/doc?31836</u>)
- Wirewound
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL HISTORICAL MODEL		POWER RATING W	RESISTANCE RANGE Ω	TOLERANCE ⁽¹⁾ ± %	TERMINAL STYLE		
OVSF0030	16-20 Ω Oval	30	1.2 to 7.3K	5	A		
OVSF0040	16-32 Ω Oval	40	1.7 to 27K	5	A		
OVSF0055	16-56 Ω Oval	55	2.4 to 85K	5	A		
OVSF0070	16-76 Ω Oval	70	3.0 to 137K	5	A		
OVSF0095	16-96 Ω Oval	95	4.1 to 171K	5	A		

Notes

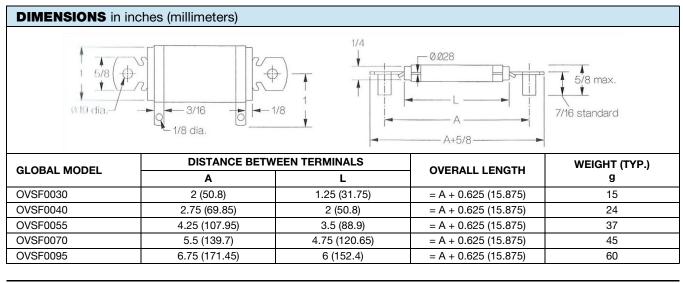
Ratings are based on a temperature rise of 300 °C above an ambient of 40 °C.

(1) Standard fixed resistance tolerance \pm 5 %. Resistance values less than 1 Ω and adjustable have \pm 10 % tolerance. Closer tolerances available upon request.

DERATING FOR GROUP INSTALLATIONS					
NUMBER OF RESISTORS	% OF SINGLE RATING				
STACKED	VERTICAL CHASSIS	HORIZONTAL CHASSIS			
2	80	75			
3	70	60			
4	65	50			

Notes

• Ratings are based on mounting on a steel panel 10" x 10" x 0.040". Derate by 29 % when mounting on non-heat conductive surface.



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1 For technical questions, contact: <u>vishaymilwaukeeresistor@vishay.com</u> Document Number: 31835



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TERMINAL STYLE in inches (millimeters)



DIMENSIONS	A (3/16" LUG)	H (1/4" SQC)	
Width (A)	0.1875 (4.7625)	0.25 (6.35)	
Height (B)	0.375 (9.525)	0.625 (15.875)	
Dia. (C)	0.13 (3.302)	0.065 (1.651)	
Thickness (D)	0.02 (0.508)	0.032 (0.8128)	

MATERIAL SPECIFICATIONS			
Element	Copper-nickel, nickel-chrome, iron-chrome-aluminum		
Core	Steatite		
Coating	High temperature silicone		
Standard terminals	Nickel-iron		
Part marking	Value, date code, MRC		

GLOB	GLOBAL PART NUMBER INFORMATION							
Global I	Global Part Numbering example: OVSF0070137K0JHB00 (OVSF0070 137K 5 % 1/4SQC B)							
0	0 V S F 0 0 7 0 1 3 7 K 0 J H B 0 0							
MODEL (2 digits)	COATING (1 digit)	TYPE (1 digit)	SIZE (4 digits)	VALUE (5 digits)	TOLERANCE (1 digit)	TERMINAL (1 digit)	PACKAGING (1 digit)	SPECIAL (2 digits)
ov	S = Silicone	F = Fixed	0030 = 30 W 0095 = 95 W Available sizes: 0030 0040 0055 0070 0095	$\label{eq:response} \begin{array}{l} \textbf{R} = \text{Decimal} \\ \textbf{K} = \text{Thousand} \\ \textbf{R1500} = 0.15 \ \Omega \\ \textbf{1K500} = 1.5 \ k\Omega \\ \end{array} \\ \begin{array}{l} \textbf{Check} \\ \text{datasheet} \\ \text{for available} \\ \text{value range} \end{array}$	J = ± 5.0 % K = ± 10 %	A = 3/16" lug (3/16L) H = 1/4" single quick-connect (1/4SQC)	B = Bulk	00 = Standard NI = Non-inductive NS = No strips and spacers



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