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
- 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 www.vishay.com/doc?31836)
- Wirewound
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

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 ± 5 %. Resistance values less than 1 Ω and adjustable have ± 10 % tolerance. Closer tolerances available upon request.

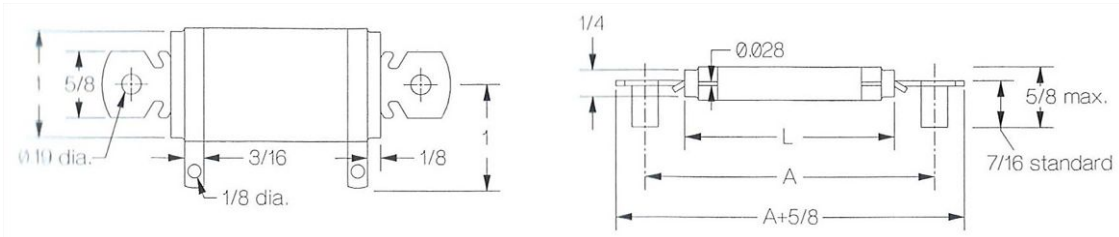
DERATING FOR GROUP INSTALLATIONS

NUMBER OF RESISTORS STACKED	% OF SINGLE RATING	
	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.

DIMENSIONS in inches (millimeters)



GLOBAL MODEL	DISTANCE BETWEEN TERMINALS		OVERALL LENGTH	WEIGHT (TYP.) g
	A	L		
OVSF0030	2 (50.8)	1.25 (31.75)	= A + 0.625 (15.875)	15
OVSF0040	2.75 (69.85)	2 (50.8)	= A + 0.625 (15.875)	24
OVSF0055	4.25 (107.95)	3.5 (88.9)	= A + 0.625 (15.875)	37
OVSF0070	5.5 (139.7)	4.75 (120.65)	= A + 0.625 (15.875)	45
OVSF0095	6.75 (171.45)	6 (152.4)	= A + 0.625 (15.875)	60

For technical questions, contact: vishaymilwaukeeresistor@vishay.com

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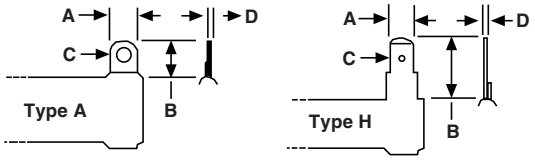
TERMINAL STYLE in inches (millimeters)



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

GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: OVSF0070137K0JHB00 (OVSF0070 137K 5 % 1/4SQC B)

O	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	**R** = Decimal **K** = Thousand **R1500** = 0.15 Ω **1K500** = 1.5 kΩ Check datasheet for available value range	**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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