

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


**RoHS  
COMPLIANT**

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

### Notes

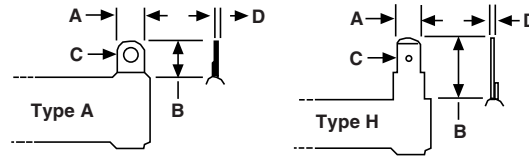
- Ratings are based on a temperature rise of 300 °C above an ambient of 40 °C.
- <sup>(1)</sup> Standard fixed resistance tolerance  $\pm$  5 %. Resistance values less than 1  $\Omega$  and adjustable have  $\pm$  10 % tolerance. Closer tolerances available upon request.

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

**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)

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)
<b>OV</b>	<b>S</b> = Silicone	<b>F</b> = Fixed	<b>0030</b> = 30 W <b>0095</b> = 95 W  Available sizes: 0030 0040 0055 0070 0095	<b>R</b> = Decimal <b>K</b> = Thousand <b>R1500</b> = 0.15 Ω <b>1K500</b> = 1.5 kΩ  Check datasheet for available value range	<b>J</b> = ± 5.0 % <b>K</b> = ± 10 %	<b>A</b> = 3/16" lug (3/16L) <b>H</b> = 1/4" single quick-connect (1/4SQC)	<b>B</b> = Bulk	<b>00</b> = Standard <b>NI</b> = Non-inductive <b>NS</b> = No strips and spacers



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