



# Metal Film Resistors, Zero Ohm Jumper, Industrial



Product is End of Life Dec-2018  
per PTN-DR-00011-2018, Rev 0

## FEATURES

- Provides low resistance circuit interconnections
- Color band marking for ease of identification after mounting
- Flame retardant coating
- Compatible with automatic insertion equipment
- Tape and reel packaging
- Material categorization:



RoHS\*  
Available

for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

## Note

\* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

## STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	MAXIMUM RESISTANCE VALUE mΩ	MAXIMUM CURRENT A	
			AT + 25 °C	AT + 150 °C
FRJ50	FRJ-50	10	25	0

## Note

- DSCC has created a drawing to support the need for an axial-leaded zero-ohm jumper product. Vishay Dale is listed as a resource on this drawing as follows:

DSCC DRAWING NUMBER	VISHAY DALE MODEL	MAXIMUM RESISTANCE mΩ	MAXIMUM CURRENT RATING A
A-A-55502	FRJ50	10	5

- This drawing can be viewed at: <http://www.landandmaritime.dla.mil/Programs/MilSpec/ListDwgs.aspx?DocTYPE=DSCCdwg>

## TECHNICAL SPECIFICATIONS

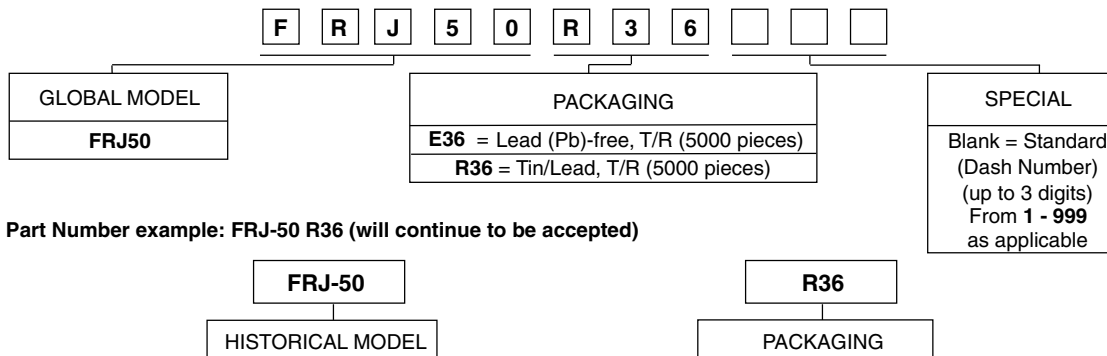
PARAMETER	UNIT	FRJ50
Insulation Resistance - Dry	MΩ	10 000
Insulation Resistance - Wet	MΩ	100
Category Temperature Range	°C	-55 / +155
Dielectric Strength	V <sub>RMS</sub>	500
	V <sub>RMS</sub>	325
Failure Rate	10 <sup>-9</sup> /h	< 10
Weight	g	0.1

## MATERIAL SPECIFICATIONS

Insulation Flammability	Self extinguishing 10 s after flame is removed	Solder plated copper	Tin-plated copper or tin/lead plated copper
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## GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: FRJ50R36 (preferred part numbering format)



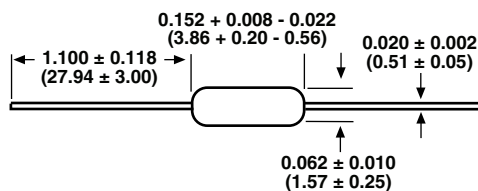
## Note

- For additional information on packaging, refer to the Through-Hole Resistor Packaging document ([www.vishay.com/doc?31544](http://www.vishay.com/doc?31544))

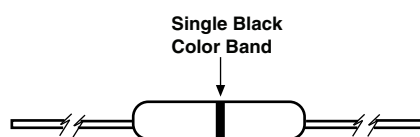


**DIMENSIONS** in inches (millimeters)

**FRJ50**



**MARKING**



**PACKAGING**

Taped Lead and Reel Package

(52.4 mm inside tape spacing per EIA-296-E)

**Notes**

- Quantity per reel: 5000 pieces in 5000-piece increments
- A minimum of 12.0" (305 mm) bare tape leader shall be provided at each end of the reel
- Paper separator protection between layers of components
- Reel arbor hole is 1.25" (31.75 mm)



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