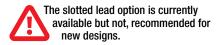


Features

- Axial leaded
- Fully compatible with current industry standards
- Weldable nickel terminals
- Very low internal resistance
- Low switching temperature
- Agency recognition: \(\begin{align*}
 \text{Sequence}
 \tex

■ RoHS compliant*



MF-VS Series - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max. Amps	I _{hold}	I _{trip}	Initial Resistance			1 Hour (R ₁) Post-Trip Resistance	Max. Time to Trip		Tripped Power Dissipation
			Amperes at 23 °C		Ohms at 23 °C			Ohms at 23 °C	Amperes at 23 °C	Seconds at 23 °C	Watts at 23 °C
			Hold	Trip	Min.	Max.	Тур.	Max.			Тур.
MF-VS170	16	100	1.7	3.4	0.030	0.052	0.040	0.105	8.5	3.0	1.4
MF-VS210	16	100	2.1	4.7	0.018	0.030	0.022	0.060	10.0	5.0	1.5

Environmental Characteristics

Operating/Storage Temperature-40 °C to +85 °C Maximum Device Surface Temperature in Tripped State 125 °C +85 °C to -40 °C, 10 times Condition A

Test Procedures And Requirements For Model MF-VS Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23 °C	Rmin ≤ R ≤ R1max
Time to Trip	At specified current, Vmax, 23 °C	T ≤ max. time to trip (seconds)
	30 min. at Ihold	
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
Trip Endurance	Vmax, 48 hours	No arcing or burning
UL File Number	E174545	
OLT lie Nullibei	http://www.ul.com/ Follow link to Certificat	tions than III File No. onter F174545
CSA File Number		tions, then of the No., enter £174343
	,	der "Certification Record" and "File Number"
	enter 110338-0-000	
TÜV Certificate Number		
	http://www.tuvdotcom.com/ Follow link to "	other certificates", enter File No. 2057213

Thermal Derating Chart - Ihold (Amps)

Model	Ambient Operating Temperature											
	-40 °C	-20 °C	0 ℃	23 ℃	40 °C	50 °C	60 °C	70 °C	85 °C			
MF-VS170	3.2	2.7	2.2	1.7	1.3	1.1	0.8	0.6	0.1			
MF-VS210	4.1	3.5	2.9	2.1	1.6	1.3	1.0	0.7	0.1			

^{*}Itrip is approximately two times Ihold-

Specifications are subject to change without notice.

^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Applications

Any application that requires protection at low resistances:

- Rechargeable battery packs; designed for NiMH and Li-Ion chemical characteristics
- Cellular phones
- Laptop computers

MF-VS Series - PTC Resettable Fuses

BOURNS

Product Dimensions

Model	Α		В		С		D		F		Pkg.
	Min.	Max.	Style								
MF-VS170	16.0	18.0	4.9	5.5	0.6	0.9	4.1	5.8	3.9	4.1	Std.
	(0.630)	(0.709)	(0.193)	(0.217)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)	
MF-VS170S	16.0	18.0	4.9	5.5	0.6	0.9	4.1	5.8	3.9	4.1	Std.
	(0.630)	(0.709)	(0.193)	(0.217)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)	
MF-VS210	20.9	23.1	4.9	5.5	0.6	0.9	4.1	5.8	3.9	4.1	Std.
	(0.823)	(0.909)	(0.193)	(0.217)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)	
MF-VS210L	24.0	26.0	4.9	5.5	0.6	0.9	5.0	7.1	3.9	4.1	Std.
	(0.945)	(1.023)	(0.193)	(0.217)	(0.024)	(0.035)	(0.197)	(0.280)	(0.154)	(0.161)	
MF-VS210S	20.9	23.1	4.9	5.5	0.6	0.9	4.1	5.8	3.9	4.1	S
	(0.823)	(0.909)	(0.193)	(0.217)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)	

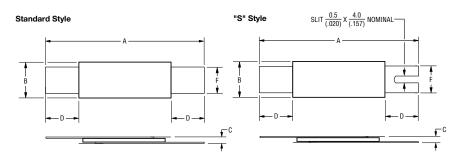
Packaging: Bulk - 500 pcs. per bag. Tape and Reel - Consult factory.

Leads: 1/4 Hardened Nickel 0.125 mm (.005 ") nom.

DIMENSIONS:

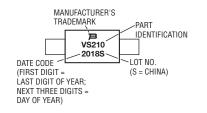
MM (INCHES)

NOTE: All "S" style models available with 1 or 2 slots. The dimensions and shape of the leads can be modified to suit the battery pack design. All models are available without insulation wrapping.

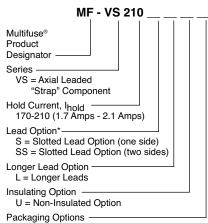


Typical Part Marking

Represents total content. Layout may vary.



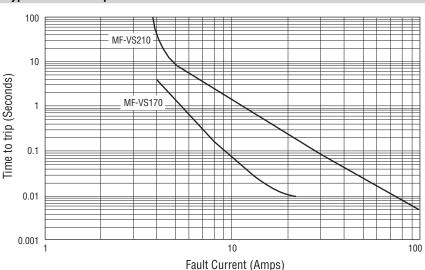
How to Order



- 0 = Bulk Packaging
- 2 = Tape and Reel** (Consult factory)
- * Slotted lead option is currently available, but not recommended for new designs.

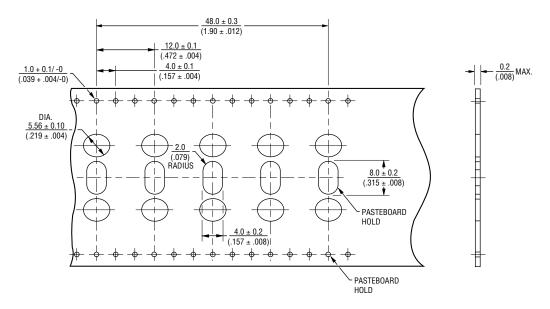
**Packaged per EIA 486-B

Typical Time to Trip at 23 °C

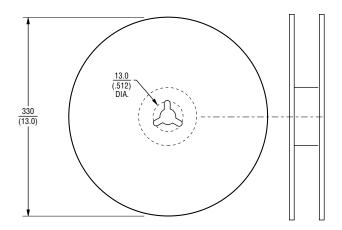


MF-VS SERIES, REV. O, 12/13

Taped Component Dimensions



Reel Dimensions



MM (INCHES) DIMENSIONS: