



SMD CHIP FUSE

MFU Series



SMD Chip Fuse for Secondary Over-Current Protection

KEY BENEFITS

- Circuit protection
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Supports lead (Pb)-free soldering
- Meets requirements of IEC 60127-4 and UL 248-14
- Standard metric SMD sizes

APPLICATIONS

- Information technology
- Industrial electronics
- Automotive electronics
- Telecommunication
- Medical equipment
- Audio/video electronics

Datasheet is available on our web site at www.vishay.com
for MFU Series - <http://www.vishay.com/doc?28747>

Thin Film Flat Chip Fuses

FEATURES

- Advanced thin film technology
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Standard metric SMD sizes
- Green product, supports lead (Pb)-free soldering

APPLICATIONS

- Information technology
- Industrial electronics
- Automotive electronics
- Telecommunication
- Medical equipment
- Audio/video electronics



MFU Thin Film Flat Chip Fuses are the perfect choice for the most fields of modern electronics. The highly controlled manufacturing thin film process guarantees an outstanding stability of fusing characteristics. Typical applications include information technology, telecommunication, medical equipment, industrial, audio/video, and automotive electronics.

METRIC SIZE	
INCH:	0402 0603 0805 1206
METRIC:	RR 1005M RR 1608M RR 2012M RR 3216M

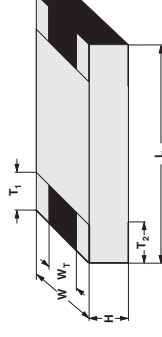
TECHNICAL SPECIFICATION

DESCRIPTION	MFU 0402 RR 1005M	MFU 0603 RR 1608M	MFU 0805 RR 2012M	MFU 1206 RR 3216M
Metric size	0.5 A to 2.0 A	0.5 A to 5.0 A	0.5 A to 5.0 A	0.5 A to 6.3 A
Rated Current range I_R	32 V	32 V	32 V	63 V
Rated voltage, U_{max} DC	50 A at 32 V	50 A at 32 V	50 A at 32 V	50 A at 63 V
Breaking Capacity, I_{max} at U_{max} DC	115 mV to 420 mV	85 mV to 361 mV	98 mV to 374 mV	116 mV to 435 mV
Voltage drop at 1 x I_R	44 mΩ to 640 mΩ	13 mΩ to 550 mΩ	15 mΩ to 570 mΩ	14 mΩ to 660 mΩ
Cold resistance at 0.1 x I_R	55/125/56	55/125/56	55/125/56	55/125/56
Permissible continuous current rating at $\theta_{amb} = 23^\circ\text{C}$	0.7 x I_R	0.7 x I_R	0.7 x I_R	0.7 x I_R
UL recognition file	E253806	E253806	E253806	E253806
Approval	IEC 60127-4	Refer to Table: MFU 0603 RATING	Refer to Table: MFU 1206 RATING	

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For technical questions, contact ff3eresistors@vishay.com

DIMENSIONS

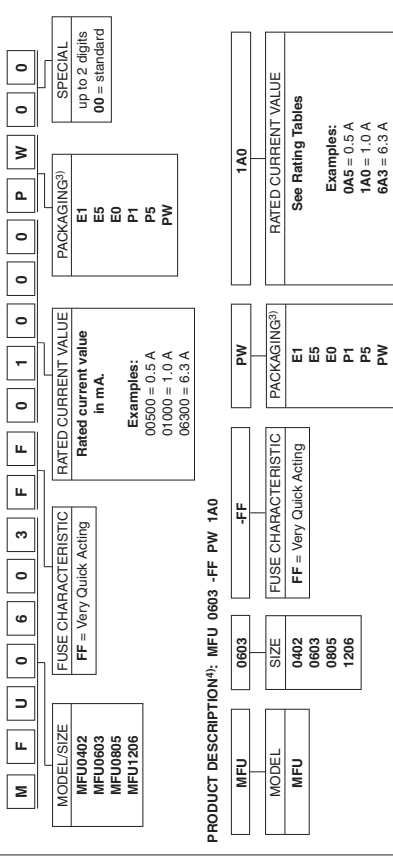


DIMENSIONS - Chip Fuse types, mass and relevant physical dimensions

TYPE	H (mm)	L (mm)	W (mm)	Wt (mm)	T ₁ (mm)	T ₂ (mm)	MASS (mg)
MFU 0402	0.32 ± 0.05	1.0 ± 0.05	0.5 ± 0.05	> 75 % of W	0.2 ± 0.1/- 0.15	0.2 ± 0.1	0.65
MFU 0603	0.45 ± 0.1/- 0.05	1.55 ± 0.05	0.85 ± 0.1	> 75 % of W	0.3 ± 0.15/- 0.2	0.3 ± 0.15/- 0.2	1.9
MFU 0805	0.45 ± 0.1/- 0.05	2.0 ± 0.1	1.25 ± 0.15	> 75 % of W	0.4 ± 0.1/- 0.2	0.4 ± 0.1/- 0.2	4.7
MFU 1206	0.55 ± 0.1	3.2 ± 0.1/- 0.2	1.6 ± 0.15	> 75 % of W	0.5 ± 0.25	0.5 ± 0.25	9.5

PART NUMBER AND PRODUCT DESCRIPTION MFU SERIES!

PART NUMBER²⁾: MFU0603FF01000PW00



Notes

1. Products can be ordered using either the PART NUMBER or the PRODUCT DESCRIPTION.
2. The PART NUMBER is shown to facilitate the introduction of a unified part numbering system.
3. Please refer to table PACKAGING.
4. We recommend that the PRODUCT DESCRIPTION is used to minimize the possibility of errors in order handling.

Revision 29-Jan-07