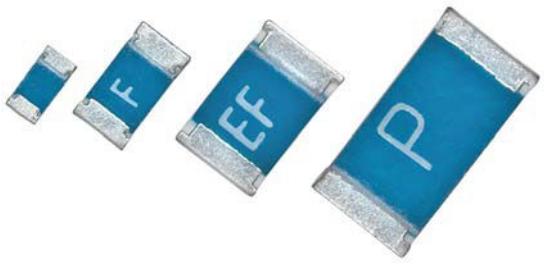
Thin Film Chip Fuses



MFU Thin Film 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.

FEATURES

- Advanced thin film technology
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Green product, supports lead (Pb)-free soldering
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

RoHS COMPLIANT
HALOGEN FREE

APPLICATIONS

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

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

TECHNICAL SPECIFICATIONS				
DESCRIPTION	**MFU 0402**	**MFU 0603**	**MFU 0805**	**MFU 1206**
Metric size	1005M	1608M	2012M	3216M
Rated current range I_R	0.5 A to 3.15 A	0.5 A to 5.0 A	0.5 A to 5.0 A	0.5 A to 6.3 A
Rated voltage, $U_{max.}$ DC	32 V	32 V	32 V	63 V
Breaking Capacity, $I_{max.}$ at $U_{max.}$ DC	50 A at 32 V	50 A at 32 V	50 A at 32 V	50 A at 63 V
Voltage drop at 1 x I_R	90 mV to 368 mV	85 mV to 361 mV	98 mV to 374 mV	116 mV to 433 mV
Cold resistance at 0.1 x I_R	22 mΩ to 560 mΩ	13 mΩ to 550 mΩ	15 mΩ to 570 mΩ	14 mΩ to 660 mΩ
Permissible film temperature, $\vartheta_{F\ max.}$	125 °C			
Operating temperature range	- 55 °C to 125 °C			
Permissible continuous current rating at ϑ_{amb} = 23 °C	0.7 x I_R			
Approval UL recognition file	E253806			
Approval IEC 60127-4	n/a	Refer to table: MFU 0603 RATING		Refer to table: MFU 1206 RATING
$FIT_{observed}$	≤ 0.2 x 10^{-9}/h			

For technical questions, contact: fuse@vishay.com
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PART NUMBER AND PRODUCT DESCRIPTION (1)

Part Number: MFU0603FF01000PW00

M	F	U	0	6	0	3	F	F	0	1	0	0	0	P	W	0	0

MODEL/SIZE	FUSING CHARACTERISTIC	RATED CURRENT	PACKAGING (2)	SPECIAL
MFU0402 **MFU0603** **MFU0805** **MFU1206**	**FF** = Very quick acting	Examples: 0.5 A = **00500** 1.0 A = **01000** 6.3 A = **06300**	**E1** **E5** **E0** **P1** **P5** **PW**	Up to 2 digits **00** = Standard

Product Description: MFU 0603 -FF PW 1A0

MFU	0603	-FF	PW	1A0
MODEL	SIZE	FUSING CHARACTERISTIC	PACKAGING (2)	RATED CURRENT
MFU	**0402** **0603** **0805** **1206**	**FF** = Very quick acting	**E1** **E5** **E0** **P1** **P5** **PW**	Examples: 0.5 A = **0A5** 1.0 A = **1A0** 6.3 A = **6A3**

Notes

(1) Products can be ordered using either the PART NUMBER or the PRODUCT DESCRIPTION

(2) Please refer to table PACKAGING

PACKAGING

TYPE	CODE	QUANTITY	CARRIER TAPE	WIDTH	PITCH	REEL DIAMETER
MFU 0402	E1	1000	Card board tape acc. IEC 60286-3 Type I	8.0	2.0	180 mm/7"
	E5	5000				
	E0	10 000				
MFU 0603	P1	1000			4.0	180 mm/7"
	P5	5000				
	PW	20 000				330 mm/13"
MFU 0805	P1	1000				180 mm/7"
	P5	5000				
	PW	20 000				330 mm/13"
MFU 1206	P1	1000				180 mm/7"
	P5	5000				
	PW	20 000				330 mm/13"

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