

## 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](http://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 $1 \times I_R$	90 mV to 368 mV	85 mV to 361 mV	98 mV to 374 mV	116 mV to 433 mV
Cold resistance at $0.1 \times I_R$	22 m $\Omega$ to 560 m $\Omega$	13 m $\Omega$ to 550 m $\Omega$	15 m $\Omega$ to 570 m $\Omega$	14 m $\Omega$ to 660 m $\Omega$
Permissible film temperature, $\vartheta_{F max}$ .	125 °C			
Operating temperature range	- 55 °C to 125 °C			
Permissible continuous current rating at $\vartheta_{amb} = 23$ °C	0.7 $\times I_R$			
Approval UL recognition file	E253806			
Approval IEC 60127-4	n/a	Refer to table: MFU 0603 RATING		Refer to table: MFU 1206 RATING
FIT <sub>observed</sub>	$\leq 0.2 \times 10^{-9}/h$			



**PART NUMBER AND PRODUCT DESCRIPTION (1)**

Part Number: MFU0603FF0100PW00

<b>M</b>	<b>F</b>	<b>U</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>3</b>	<b>F</b>	<b>F</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>P</b>	<b>W</b>	<b>0</b>	<b>0</b>
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MODEL/SIZE <b>MFU0402</b> <b>MFU0603</b> <b>MFU0805</b> <b>MFU1206</b>	FUSING CHARACTERISTIC <b>FF</b> = Very quick acting	RATED CURRENT Examples: 0.5 A = <b>00500</b> 1.0 A = <b>01000</b> 6.3 A = <b>06300</b>	PACKAGING (2) <b>E1</b> <b>E5</b> <b>E0</b> <b>P1</b> <b>P5</b> <b>PW</b>	SPECIAL Up to 2 digits <b>00</b> = Standard
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**Product Description: MFU 0603 -FF PW 1A0**

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

**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			Card board tape acc. IEC 60286-3 Type I	8.0	4.0	180 mm/7"
	P5	5000						330 mm/13"
	PW	20 000						180 mm/7"
MFU 0805	P1	1000						330 mm/13"
	P5	5000						180 mm/7"
	PW	20 000						330 mm/13"
MFU 1206	P1	1000	180 mm/7"					
	P5	5000	330 mm/13"					
	PW	20 000	180 mm/7"					