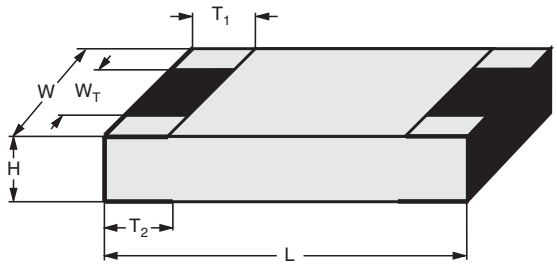
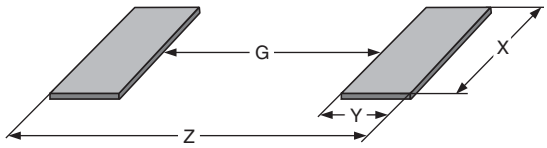
DIMENSIONS



DIMENSIONS - Chip fuse types, mass and relevant physical dimensions							
TYPE	H (mm)	L (mm)	W (mm)	W_T (mm)	T_1 (mm)	T_2 (mm)	MASS (mg)
MFU 0402	0.32 ± 0.07	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

SOLDER PAD DIMENSIONS



RECOMMENDED SOLDER PAD DIMENSIONS								
TYPE	WAVE SOLDERING				REFLOW SOLDERING			
	G (mm)	Y (mm)	X (mm)	Z (mm)	G (mm)	Y (mm)	X (mm)	Z (mm)
MFU 0402	-	-	-	-	0.35	0.55	0.55	1.45
MFU 0603	0.55	1.10	1.10	2.75	0.65	0.70	0.95	2.05
MFU 0805	0.80	1.25	1.50	3.30	0.90	0.90	1.40	2.70
MFU 1206	1.40	1.50	1.90	4.40	1.50	1.15	1.75	3.80

Note

- The given solder pad dimensions reflect the considerations for board design and assembly as outlined e.g. in standards IEC 61188-5-x, or in publication IPC-7351. They do not guarantee any supposed thermal properties, particularly as these are also strongly influenced by many other parameters.

For technical questions, contact: fuse@vishay.com

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MFU 0402 RATING - Very quick acting (FF)										
SIZE	**FUSE CHAR.**	**RATED CURRENT** [1]	**RATED VOLTAGE**	**PRE-ARCING** [2] **I^2t at 10 x I_R**	**VOLT. DROP** [2] **at 1 x I_R**	**COLD RESIS** [2] **at 0.1 x I_R**	**BREAKING CAPACITY DC**	**MARK.**	**APPROVAL**	**PART NUMBER** [3][4]
0402	FF	500 mA [5]	32 V	0.0009 A^2s	368 mV	560 mΩ	50 A at 32 V	-	UL	MFU0402FF00500E500
		630 mA [5]	32 V	0.0014 A^2s	331 mV	400 mΩ	50 A at 32 V	-	UL	MFU0402FF00630E500
		750 mA [5]	32 V	0.0020 A^2s	275 mV	280 mΩ	50 A at 32 V	-	UL	MFU0402FF00750E500
		800 mA	32 V	0.0023 A^2s	231 mV	220 mΩ	50 A at 32 V	-	UL	MFU0402FF00800E500
		1.0 A	32 V	0.0028 A^2s	184 mV	140 mΩ	50 A at 32 V	-	UL	MFU0402FF01000E500
		1.25 A	32 V	0.0039 A^2s	159 mV	97 mΩ	50 A at 32 V	-	UL	MFU0402FF01250E500
		1.5 A	32 V	0.0059 A^2s	146 mV	74 mΩ	50 A at 32 V	-	UL	MFU0402FF01500E500
		1.6 A	32 V	0.0065 A^2s	136 mV	65 mΩ	50 A at 32 V	-	UL	MFU0402FF01600E500
		1.75 A	32 V	0.0077 A^2s	124 mV	54 mΩ	50 A at 32 V	-	UL	MFU0402FF01750E500
		2.0 A	32 V	0.0101 A^2s	115 mV	44 mΩ	50 A at 32 V	-	UL	MFU0402FF02000E500
		2.5 A	32 V	0.0157 A^2s	107 mV	33 mΩ	50 A at 32 V	-	UL	MFU0402FF02500E500
		3.0 A	32 V	0.0227 A^2s	95 mV	24 mΩ	50 A at 32 V	-	UL	MFU0402FF03000E500
		3.15 A	32 V	0.0250 A^2s	90 mV	22 mΩ	50 A at 32 V	-	UL	MFU0402FF03150E500

Notes

(1) Other values of rated current are available on request
(2) Typical values
(3) For packages with 1000 pieces, please use for packaging E1 instead of E5
(4) For packages with 10 000 pieces, please use for packaging E0 instead of E5
(5) Available on request

MFU 0603 RATING - Very quick acting (FF)										
SIZE	**FUSE CHAR.**	**RATED CURRENT** [6]	**RATED VOLTAGE**	**PRE-ARCING** [7] **I^2t at 10 x I_R**	**VOLT. DROP** [7] **at 1 x I_R**	**COLD RESIS** [7] **at 0.1 x I_R**	**BREAKING CAPACITY DC**	**MARK.**	**APPROVAL**	**PART NUMBER** [8][9]
0603	FF	500 mA	32 V	0.0009 A^2s	361 mV	550 mΩ	50 A at 32 V	F	UL/IEC	MFU0603FF00500P500
		630 mA	32 V	0.0014 A^2s	331 mV	400 mΩ	50 A at 32 V	CT	UL	MFU0603FF00630P500
		750 mA	32 V	0.0020 A^2s	258 mV	262 mΩ	50 A at 32 V	G	UL	MFU0603FF00750P500
		800 mA	32 V	0.0023 A^2s	249 mV	237 mΩ	50 A at 32 V	CV	UL	MFU0603FF00800P500
		1.0 A	32 V	0.0028 A^2s	223 mV	170 mΩ	50 A at 32 V	H	UL/IEC	MFU0603FF01000P500
		1.25 A	32 V	0.0039 A^2s	180 mV	110 mΩ	50 A at 32 V	J	UL	MFU0603FF01250P500
		1.5 A	32 V	0.0059 A^2s	155 mV	79 mΩ	50 A at 32 V	K	UL	MFU0603FF01500P500
		1.6 A	32 V	0.0065 A^2s	159 mV	76 mΩ	50 A at 32 V	EF	UL/IEC	MFU0603FF01600P500
		1.75 A	32 V	0.0077 A^2s	138 mV	60 mΩ	50 A at 32 V	L	UL	MFU0603FF01750P500
		2.0 A	32 V	0.0101 A^2s	150 mV	57 mΩ	50 A at 32 V	N	UL/IEC	MFU0603FF02000P500
		2.5 A	32 V	0.0157 A^2s	121 mV	37 mΩ	50 A at 32 V	O	UL	MFU0603FF02500P500
		3.0 A	32 V	0.0227 A^2s	126 mV	32 mΩ	50 A at 32 V	P	UL	MFU0603FF03000P500
		3.15 A	32 V	0.0250 A^2s	120 mV	29 mΩ	50 A at 32 V	EL	UL/IEC	MFU0603FF03150P500
		3.5 A	32 V	0.0308 A^2s	106 mV	23 mΩ	50 A at 32 V	R	UL	MFU0603FF03500P500
		4.0 A	32 V	0.0403 A^2s	100 mV	19 mΩ	50 A at 32 V	S	UL	MFU0603FF04000P500
		5.0 A	32 V	0.2275 A^2s	85 mV	13 mΩ	50 A at 32 V	T	UL	MFU0603FF05000P500

Notes

(6) Other values of rated current are available on request
(7) Typical values
(8) For packages with 1000 pieces, please use for packaging P1 instead of P5
(9) For packages with 20 000 pieces, please use for packaging PW instead of P5

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