

FEATURES

- Cylindrical leadless type for surface mounting.
- Wide temperature -55°C ~ +105°C with economical pricing.
- Wide CV range.
- Solvent resistant (2 minutes).
- Designed for automatic mounting and reflow soldering



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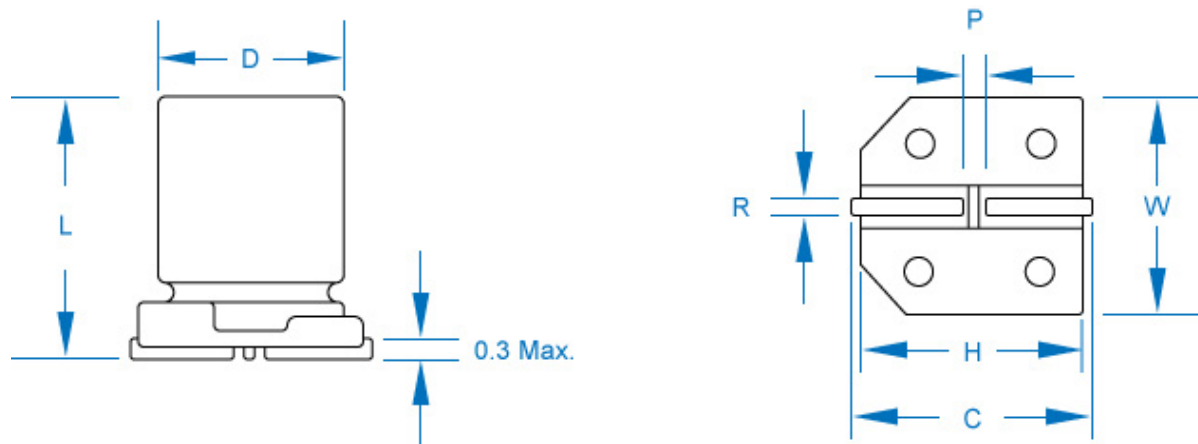
PART NUMBER EXAMPLE

MXW	-	6R3	/	220	M	4X5	TR	F
Type		Rated DC voltage		Capacitance code (µF)	Tolerance code	Size (DxL)	Package code	RoHS compliant
Capacitance Code: First two digits represent significant figure, third digit represents multiplier (number of zeros).								
Package Code: TR = Tape & Reel.								

GENERAL SPECIFICATIONS

Item	Performance								
Operating temperature	-55° ~ +105°C								
Capacitance range	0.47µF to 12,000µF								
Capacitance tolerance	±20%								
Rated voltage range	6.3 VDC to 100 VDC								
Surge voltage	Rated Voltage (VDC)	6.3	10	16	25	35	50	63	100
	Surge Voltage (VDC)	8	13	20	32	44	63	79	125
Temperature characteristics (120Hz)	Impedance Ratio								
		Voltage (VDC)							
	Z Temp.	6.3	10	16	25	35	50	63	100
	-40°C	3	3	2	2	2	2	2	
	-55°C	8	5	4	3	3	3	3	
Endurance (At rated voltage & max. operating temp)	After 1000 hours: Capacitance change: Within ±25% of initial rated value. DF: Less than 200% of initial maximum specified value. Leakage Current: Within initial maximum specified value.								
Dissipation factor (@ 120Hz & 20°C)	Voltage(VDC)								
	Diameter	6.3	10	16	25	35	50	63	100
	4	24%		16%	14%	12%	10%	12%	10%
	5	24%	20%	16%	14%	12%	10%	12%	
	6.3	24%	20%	16%	14%	12%	10%	12%	10%
	8	28%	24%	20%	16%	14%	12%	12%	10%
	10	28%	24%	20%	16%	14%	12%	12%	10%
	12.5	32%	26%	20%	16%	14%	12%	12%	10%
	16	38%	30%	24%	18%	14%	12%	12%	10%
	18	56%	48%	34%	26%	20%	16%	14%	10%
For capacitors greater than 1,000µF, add 2% per each additional 1,000µF.									
Maximum Leakage Current	After 2 minutes @ 20°C: 0.002CV or 4µA, whichever is greater.								

DIMENSIONS



STANDARD PRODUCTS

Part Number	Nom. Cap. (μF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 105°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ± 0.2	H ± 0.2	C ± 0.2	R MIN	R MAX	P
MXW-6R3/220M4X5TRF	22	6.3	22	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-6R3/330M5X5TRF	33	6.3	27	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-6R3/470M5X5TRF	47	6.3	33	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-6R3/101M6X5TRF	100	6.3	50	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-6R3/221M6X6TRF	220	6.3	87	6X6	6.3	6 ± 0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-6R3/331M6X8TRF	330	6.3	105	6X8	6.3	7.7 ± 0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-6R3/471M8X10TRF	470	6.3	210	8X10	8	10.2 ± 0.3	8.3	8.3	9	0.7	1	3.2
MXW-6R3/681M10X8TRF	680	6.3	210	10X8	10	7.7 ± 0.3	10.3	10.3	11	1	1.4	4.6
MXW-6R3/681M8X10TRF	680	6.3	210	8X10	8	10.2 ± 0.3	8.3	8.3	9	0.7	1	3.2
MXW-6R3/102M8X10TRF	1000	6.3	230	8X10	8	10.2 ± 0.3	8.3	8.3	9	0.7	1	3.2
MXW-6R3/152M10X10TRF	1500	6.3	310	10X10	10	10.2 ± 0.3	10.3	10.3	11	1	1.4	4.6
MXW-6R3/332M12X14TRF	3300	6.3	520	12X14	12.5	13.5 ± 0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-6R3/682M16X16TRF	6800	6.3	930	16X16	16	16.5 ± 0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-6R3/103M18X16TRF	10000	6.3	1200	18X16	18	16.5 ± 0.5	19	19	20	1.7	2.1	7
MXW-6R3/123M18X21TRF	12000	6.3	1350	18X21	18	21.5 ± 0.5	19	19	20	1.7	2.1	7
MXW-010/220M5X5TRF	22	10	25	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-010/330M5X5TRF	33	10	34	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-010/470M6X5TRF	47	10	41	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-010/101M6X5TRF	100	10	53	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-010/151M6X6TRF	150	10	62	6X6	6.3	6 ± 0.3	6.6	6.6	7.3	0.5	0.8	2.2

Part Number	Nom. Cap. (µF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 105°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ±0.2	H ±0.2	C ±0.2	R MIN	R MAX	P
MXW-010/221M6X8TRF	220	10	105	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-010/331M8X10TRF	330	10	195	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-010/471M10X8TRF	470	10	210	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-010/471M8X10TRF	470	10	210	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-010/102M10X10TRF	1000	10	310	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-010/222M12X14TRF	2200	10	510	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-010/472M16X16TRF	4700	10	880	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-010/682M18X16TRF	6800	10	1150	18X16	18	16.5 ±0.5	19	19	20	1.7	2.1	7
MXW-010/822M18X21TRF	8200	10	1350	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7
MXW-016/100M4X5TRF	10	16	18	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-016/220M5X5TRF	22	16	27	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-016/330M6X5TRF	33	16	40	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-016/470M6X5TRF	47	16	48	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-016/101M6X5TRF	100	16	60	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-016/151M6X8TRF	150	16	95	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-016/221M6X8TRF	220	16	105	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-016/331M10X8TRF	330	16	195	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-016/331M8X10TRF	330	16	195	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-016/471M8X10TRF	470	16	230	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-016/681M10X10TRF	680	16	310	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-016/152M12X14TRF	1500	16	500	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-016/332M16X16TRF	3300	16	840	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-016/472M18X16TRF	4700	16	1090	18X16	18	16.5 ±0.5	19	19	20	1.7	2.1	7
MXW-016/562M18X21TRF	5600	16	1300	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7
MXW-025/4R7M4X5TRF	4.7	25	13	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-025/100M5X5TRF	10	25	20	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-025/220M6X5TRF	22	25	36	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-025/330M6X5TRF	33	25	44	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-025/470M6X6TRF	47	25	48	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-025/101M6X8TRF	100	25	91	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-025/151M8X10TRF	150	25	140	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-025/221M10X8TRF	220	25	175	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-025/221M8X10TRF	220	25	175	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-025/331M8X10TRF	330	25	220	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-025/471M10X10TRF	470	25	300	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-025/102M12X14TRF	1000	25	460	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6

Part Number	Nom. Cap. (µF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 105°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ±0.2	H ±0.2	C ±0.2	R MIN	R MAX	P
MXW-025/222M16X16TRF	2200	25	805	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-025/332M18X16TRF	3300	25	1040	18X16	18	16.5 ±0.5	19	19	20	1.7	2.1	7
MXW-025/392M18X21TRF	3900	25	1280	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7
MXW-035/4R7M4X5TRF	4.7	35	14	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-035/100M5X5TRF	10	35	21	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-035/220M6X5TRF	22	35	38	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-035/330M6X6TRF	33	35	42	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-035/470M6X6TRF	47	35	49	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-035/101M6X8TRF	100	35	84	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-035/151M10X8TRF	150	35	155	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-035/151M8X10TRF	150	35	155	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-035/221M8X10TRF	220	35	190	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-035/331M10X10TRF	330	35	300	10X10	10	10.5 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-035/471M12X14TRF	470	35	410	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-035/681M12X14TRF	680	35	430	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-035/102M16X16TRF	1000	35	700	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-035/152M16X16TRF	1500	35	740	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-035/222M18X16TRF	2200	35	950	18X16	18	16.5 ±0.5	19	19	20	1.7	2.1	7
MXW-035/272M18X21TRF	2700	35	1200	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7
MXW-050/R47M4X5TRF	0.47	50	3.5	4X5	4	5.5 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-050/010M4X5TRF	1	50	7	4X5	4	5.5 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-050/2R2M4X5TRF	2.2	50	11	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-050/3R3M4X5TRF	3.3	50	13	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-050/4R7M5X5TRF	4.7	50	16	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-050/100M6X5TRF	10	50	24	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-050/220M6X6TRF	22	50	42	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-050/330M6X8TRF	33	50	60	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-050/470M6X8TRF	47	50	63	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-050/820M10X8TRF	82	50	140	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-050/101M8X10TRF	100	50	140	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-050/221M10X10TRF	220	50	220	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-050/331M12X14TRF	330	50	365	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-050/391M12X14TRF	390	50	380	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-050/102M16X16TRF	1000	50	655	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-050/152M18X21TRF	1500	50	1100	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7
MXW-063/R47M4X5TRF	0.47	63	3.5	4X5	4	5.5 -0.5	4.3	4.3	5	0.5	0.8	1

Part Number	Nom. Cap. (µF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 105°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ±0.2	H ±0.2	C ±0.2	R MIN	R MAX	P
MXW-063/010M4X5TRF	1	63	7	4X5	4	5.5 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-063/2R2M4X5TRF	2.2	63	11	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXW-063/3R3M5X5TRF	3.3	63	14	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-063/4R7M5X5TRF	4.7	63	16	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXW-063/100M6X5TRF	10	63	24	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXW-063/220M6X8TRF	22	63	49	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-063/330M8X10TRF	33	63	112	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-063/470M8X10TRF	47	63	119	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-063/680M8X10TRF	68	63	126	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-063/101M10X10TRF	100	63	196	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-063/221M12X14TRF	220	63	287	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-063/471M16X16TRF	470	63	630	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-063/681M18X16TRF	680	63	750	18X16	18	16.5 ±0.5	19	19	20	1.7	2.1	7
MXW-063/102M18X21TRF	1000	63	900	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7
MXW-100/010M4X6TRF	1	100	7	4X6	4	6 ±0.3	4.3	4.3	5	0.5	0.8	1
MXW-100/2R2M6X6TRF	2.2	100	14	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-100/3R3M6X6TRF	3.3	100	20	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-100/4R7M6X6TRF	4.7	100	25	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-100/100M6X8TRF	10	100	35	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXW-100/220M8X10TRF	22	100	84	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXW-100/330M10X10TRF	33	100	133	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXW-100/470M12X14TRF	47	100	240	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-100/680M12X14TRF	68	100	245	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXW-100/101M16X16TRF	100	100	490	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-100/151M16X16TRF	150	100	500	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXW-100/221M18X16TRF	220	100	650	18X16	18	16.5 ±0.5	19	19	20	1.7	2.1	7
MXW-100/331M18X21TRF	330	100	700	18X21	18	21.5 ±0.5	19	19	20	1.7	2.1	7