

FEATURES

- Cylindrical leadless type for surface mounting.
- Low cost, general purpose, 2000 hours at 85°C.
- New expanded CV range.
- Solvent resistant (2 minutes).
- Designed for automatic mounting and reflow soldering.



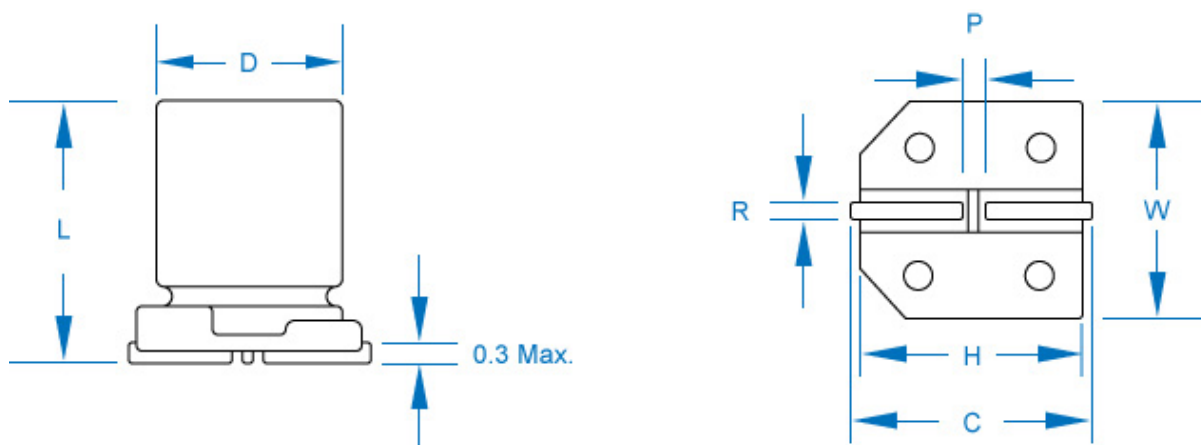
PART NUMBER EXAMPLE

MXM	-	050	/	101	M	8X10	TR	F
Type		Rated 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	-40°C to +85°C									
Capacitance range	0.47μF to 6,800μF									
Capacitance tolerance	±20%									
Rated voltage range	4 VDC to 100 VDC									
Surge voltage	Rated Voltage (VDC)	4	6.3	10	16	25	35	50	63	100
	Surge Voltage (VDC)	5	8	13	20	32	44	63	79	125
Temperature characteristics (120Hz)	Impedance Ratio									
	Voltage (VDC)									
	Z Temp.	4	6.3	10	16	25	35	50	63	100
	-25°C	7	4	3	2	2	2	2	2	2
	-40°C	15	8	6	4	4	3	3	3	3
Endurance (At rated voltage & max. operating temp)	After 2000 hours:									
	Capacitance change: Within ±30% of initial rated value.									
	DF: Less than 300% of initial maximum specified value.									
	Leakage Current: Within initial maximum specified value.									
Dissipation factor (@ 120Hz & 20°C)	Voltage(VDC)									
	Diameter	4	6.3	10	16	25	35	50	63	100
	4	35%	26%		16%	14%	12%	12%	12%	10%
	5	35%	26%	20%	16%	14%	12%	12%	12%	
	6.3	35%	26%	20%	16%	14%	12%	12%	12%	10%
	8		30%	24%	20%	16%	14%	12%	12%	10%
	10	40%	30%	24%	20%	16%	14%	12%	12%	10%
	12.5		34%	26%	20%	16%	14%	12%	12%	10%
Maximum Leakage Current	For capacitors greater than 1,000μF, add 2% per each additional 1,000μF.									
	After 2 minutes @ 20°C: 0.01CV or 3μA, whichever is greater.									

DIMENSIONS



STANDARD PRODUCTS

Part Number	Nom. Cap. (μF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 85°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ±0.2	H ±0.2	C ±0.2	R MIN	R MAX	P
MXM-4R0/330M4X5TRF	33	4	26	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-4R0/470M4X5TRF	47	4	34	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-4R0/101M5X5TRF	100	4	61	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-4R0/221M6X5TRF	220	4	82	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-4R0/331M6X6TRF	330	4	102	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-4R0/471M6X8TRF	470	4	150	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-4R0/102M10X8TRF	1000	4	330	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-6R3/220M4X5TRF	22	6.3	31	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-6R3/330M5X5TRF	33	6.3	39	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-6R3/470M5X5TRF	47	6.3	47	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-6R3/101M6X5TRF	100	6.3	71	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-6R3/221M6X6TRF	220	6.3	95	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-6R3/331M6X8TRF	330	6.3	150	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-6R3/471M8X10TRF	470	6.3	300	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-6R3/681M10X8TRF	680	6.3	300	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-6R3/681M8X10TRF	680	6.3	300	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-6R3/102M8X10TRF	1000	6.3	330	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-6R3/152M10X10TRF	1500	6.3	450	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-6R3/332M12X14TRF	3300	6.3	750	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-6R3/682M16X16TRF	6800	6.3	1330	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-010/220M5X5TRF	22	10	35	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-010/330M5X5TRF	33	10	43	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-010/470M6X5TRF	47	10	59	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-010/101M6X5TRF	100	10	76	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-010/151M6X6TRF	150	10	88	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-010/221M6X8TRF	220	10	150	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-010/331M8X10TRF	330	10	280	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-010/471M10X8TRF	470	10	300	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-010/471M8X10TRF	470	10	300	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-010/102M10X10TRF	1000	10	450	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-010/222M12X14TRF	2200	10	730	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-010/472M16X16TRF	4700	10	1260	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-016/100M4X5TRF	10	16	25	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-016/220M5X5TRF	22	16	39	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-016/330M6X5TRF	33	16	57	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-016/470M6X5TRF	47	16	68	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-016/101M6X5TRF	100	16	86	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-016/151M6X8TRF	150	16	135	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2

Part Number	Nom. Cap. (μF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 85°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ±0.2	H ±0.2	C ±0.2	R MIN	R MAX	P
MXM-016/221M6X8TRF	220	16	150	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-016/331M10X8TRF	330	16	280	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-016/331M8X10TRF	330	16	280	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-016/471M8X10TRF	470	16	330	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-016/681M10X10TRF	680	16	450	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-016/152M12X14TRF	1500	16	710	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-016/332M16X16TRF	3300	16	1200	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-025/4R7M4X5TRF	4.7	25	19	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-025/100M5X5TRF	10	25	28	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-025/220M6X5TRF	22	25	52	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-025/330M6X5TRF	33	25	63	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-025/470M6X6TRF	47	25	68	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-025/101M6X8TRF	100	25	130	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-025/151M8X10TRF	150	25	200	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-025/221M10X8TRF	220	25	250	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-025/221M8X10TRF	220	25	250	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-025/331M8X10TRF	330	25	310	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-025/471M10X10TRF	470	25	430	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-025/102M12X14TRF	1000	25	660	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-025/222M16X16TRF	2200	25	1150	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-035/4R7M4X5TRF	4.7	35	20	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-035/100M5X5TRF	10	35	30	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-035/220M6X5TRF	22	35	54	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-035/330M6X6TRF	33	35	60	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-035/470M6X6TRF	47	35	70	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-035/101M6X8TRF	100	35	120	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-035/151M10X8TRF	150	35	220	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-035/151M8X10TRF	150	35	220	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-035/221M8X10TRF	220	35	270	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-035/331M10X10TRF	330	35	340	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-035/471M12X14TRF	470	35	590	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-035/681M12X14TRF	680	35	610	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-035/102M16X16TRF	1000	35	1000	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-035/152M16X16TRF	1500	35	1060	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-050/R47M4X5TRF	0.47	50	5	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-050/010M4X5TRF	1	50	10	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-050/2R2M4X5TRF	2.2	50	15	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-050/3R3M4X5TRF	3.3	50	18	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-050/4R7M5X5TRF	4.7	50	23	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4

Part Number	Nom. Cap. (μF)	Voltage (VDC)	Ripple (mA) (@ 120Hz & 85°C)	Size	Dimensions (mm)							
					D +0.5 MAX	L	W ±0.2	H ±0.2	C ±0.2	R MIN	R MAX	P
MXM-050/100M6X5TRF	10	50	34	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-050/220M6X6TRF	22	50	60	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-050/330M6X8TRF	33	50	85	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-050/470M6X8TRF	47	50	90	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-050/820M10X8TRF	82	50	200	10X8	10	7.7 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-050/101M8X10TRF	100	50	200	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-050/221M10X10TRF	220	50	320	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-050/331M12X14TRF	330	50	520	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-050/391M12X14TRF	390	50	550	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-050/102M16X16TRF	1000	50	940	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-063/R47M4X5TRF	0.47	63	5	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-063/010M4X5TRF	1	63	10	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-063/2R2M4X5TRF	2.2	63	15	4X5	4	5.4 -0.5	4.3	4.3	5	0.5	0.8	1
MXM-063/3R3M5X5TRF	3.3	63	20	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-063/4R7M5X5TRF	4.7	63	23	5X5	5	5.4 -0.5	5.3	5.3	6	0.5	0.8	1.4
MXM-063/100M6X5TRF	10	63	34	6X5	6.3	5.4 -0.5	6.6	6.6	7.3	0.5	0.8	2.2
MXM-063/220M6X8TRF	22	63	70	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-063/330M8X10TRF	33	63	160	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-063/470M8X10TRF	47	63	170	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-063/680M8X10TRF	68	63	180	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-063/101M10X10TRF	100	63	280	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-063/221M12X14TRF	220	63	410	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-063/471M16X16TRF	470	63	700	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-100/010M4X6TRF	1	100	10	4X6	4	6 ±0.3	4.3	4.3	5	0.5	0.8	1
MXM-100/2R2M6X6TRF	2.2	100	20	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-100/3R3M6X6TRF	3.3	100	28	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-100/4R7M6X6TRF	4.7	100	35	6X6	6.3	6 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-100/100M6X8TRF	10	100	50	6X8	6.3	7.7 ±0.3	6.6	6.6	7.3	0.5	0.8	2.2
MXM-100/220M8X10TRF	22	100	120	8X10	8	10.2 ±0.3	8.3	8.3	9	0.7	1	3.2
MXM-100/330M10X10TRF	33	100	190	10X10	10	10.2 ±0.3	10.3	10.3	11	1	1.4	4.6
MXM-100/470M12X14TRF	47	100	330	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-100/680M12X14TRF	68	100	350	12X14	12.5	13.5 ±0.5	12.8	12.8	13.5	1	1.4	4.6
MXM-100/101M16X16TRF	100	100	550	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7
MXM-100/151M16X16TRF	150	100	560	16X16	16	16.5 ±0.5	16.3	16.3	17.3	1.7	2.1	7