

FEATURES

- HIGH TEMPERATURE 125°C LONG LIFE
- 6.3V ~ 50V 2000hrs, 6.3D 1000hrs, 100V 1500hrs LIFE
- WIDE TEMPERATURE RANGE
- DESIGNED FOR AUTOMATIC MOUNTING
- SOLVENT RESISTANT



PART NUMBERING

Part Number Example: MXLX-025/330M6X6TR13F									
MXLX	-	025	/	330	M	6X6	TR	13	F
Type		Rated DC Voltage		Capacitance Code (μF)*	Tolerance Code	Size	Package Code**	Reel Size	RoHs Compliant
* Capacitance Code: First two digits represent significant figure, third digit represents multiplier (number of zeros).									
** Package Code: TR = Tape & Reel.									

SPECIFICATIONS

Performance Characteristics									
Operating Temperature Range	-55°C ~ +125°C.								
Voltage Range	6.3VDC ~ 100VDC.								
Capacitance Range	2.2μF ~ 4700μF.								
Capacitance Tolerance	±20%.								
Maximum Dissipation Factor (20°C, 120Hz)	Rated Voltage (WVDC)	6.3	10	16	25	35	50	63	100
	DF%	30	24	20	16	14	14	12	10
	For capacitors greater than 1000μF, add 0.02 per each additional 1000μF.								
Maximum Leakage Current (20°C) (after 2 minutes)	0.01CV or 3μA, whichever is greater.								
Load Life Test (105°C, 5000 hours for D ≥ 8.0mm) (105°C, 2000 hours for D < 8.0mm)	Capacitance Change	Within ±30% of initial measured value.							
	DF%	Less than 300% of specified value.							
	Leakage Current	Within maximum specified value.							

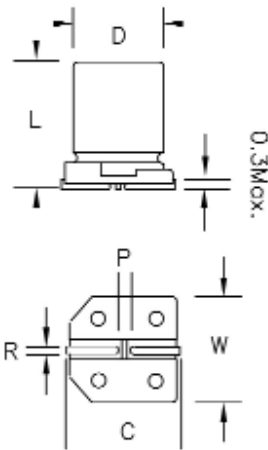
Cap (μF)	WVDC							
	6.3	10	16	25	35	50	63	100
2.2						6.3 x 6		
3.3						6.3 x 6		
4.7					6.3 x 6	6.3 x 6		
10					6.3 x 6	6.3 x 6		8 x 10.2
22					6.3 x 6	6.3 x 7.7	8 x 10.2	8 x 10.2
33						6.3 x 7.7		
33				6.3 x 6	6.3 x 7.7	8 x 10.2	8 x 10.2	10 x 10.2
47					6.3 x 7.7	8 x 10.2	8 x 10.2	
47		6.3 x 6	6.3 x 6	6.3 x 7.7	8 x 10.2	10 x 10.2	10 x 10.2	12.5 x 13.5
100			6.3 x 7.7	6.3 x 7.7	8 x 10.2	10 x 10.2	10 x 10.2	
100	6.3 x 6	6.3 x 7.7	8 x 10.2	8 x 10.2	10 x 10.2	12.5 x 13.5	12.5 x 13.5	16 x 16.5
220		6.3 x 7.7		8 x 10.2	10 x 10.2		12.5 x 13.5	
220	6.3 x 7.7	8 x 10.2	8 x 10.2	10 x 10.2	12.5 x 13.5	12.5 x 13.5	16 x 16.5	
330				10 x 10.2		12.5 x 13.5		
330	8 x 10.2	8 x 10.2	10 x 10.2	12.5 x 13.5	12.5 x 13.5	16 x 16.5	16 x 16.5	
470					12.5 x 13.5			
470	8 x 10.2	10 x 10.2	12.5 x 13.5	12.5 x 13.5	16 x 16.5	16 x 16.5	16 x 16.5	
680	10 x 10.2	12.5 x 13.5	12.5 x 13.5	12.5 x 13.5	16 x 16.5	16 x 16.5		
1000	12.5 x 13.5	12.5 x 13.5	12.5 x 13.5	16 x 16.5	16 x 16.5			
1500	12.5 x 13.5	12.5 x 13.5	16 x 16.5	16 x 16.5				
2200	12.5 x 13.5	16 x 16.5	16 x 16.5					
3300	16 x 16.5	16 x 16.5						
4700	16 x 16.5							

MAXIMUM RIPPLE (mA rms @ 100KHZ & 125°C)

Cap. (µF)	WVDC							
	6.3	10	16	25	35	50	63	100
2.2						45		
3.3						45		
4.7					60	45		
10					70	50		70
22					70	80	100	70
33						80		
33				70	110	140	100	115
47					110	140	100	
47		70	70	110	160	240	150	350
100				110	160	240	150	
100	70	110	160	160	220	490	350	500
220		110		160	220		350	
220	110	160	160	220	550	490	500	
330				220		490		
330	160	160	220	550	550	800	500	
470					550			
470	160	220	550	550	900	800	500	
680	220	550	550	550	900	800		
1000	550	550	550	900	900			
1500	550	550	900	900				
2200	550	900	900					
3300	900	900						
4700	900							

MAXIMUM ESR (Ω @ 100KHz & 20°C)

Cap. (µF)	WVDC							
	6.3	10	16	25	35	50	63	100
2.2						3.50		
3.3						3.50		
4.7					2.00	3.50		
10					1.60	2.80		1.00
22					1.60	2.00	1.00	1.00
33						2.00		
33				1.60	0.90	0.70	1.00	0.80
47					0.90	0.70	1.00	
47		1.60	1.60	0.90	0.40	0.50	0.50	0.33
100			0.90	0.90	0.40	0.50	0.50	
100	1.60	0.90	0.40	0.40	0.30	0.23	0.25	0.24
220		0.90		0.40	0.30		0.25	
220	0.90	0.40	0.40	0.30	0.12	0.23	0.18	
330				0.30		0.23		
330	0.40	0.40	0.30	0.12	0.12	0.15	0.18	
470					0.12			
470	0.40	0.30	0.12	0.12	0.08	0.15	0.18	
680	0.30	0.12	0.12	0.12	0.08	0.15		
1000	0.12	0.12	0.12	0.08	0.08			
1500	0.12	0.12	0.08	0.08				
2200	0.12	0.08	0.08					
3300	0.08	0.08						
4700	0.08							



SIZE D X L	D +0.5	L	W ± 0.2	C ± 0.2	R	P ± 0.2
6.3 X 6	6.3	6.0 ± 0.3	6.6	7.3	0.5 ~ 0.8	2.2
6.3 X 7.7	6.3	7.7 ± 0.3	6.6	7.3	0.5 ~ 0.8	2.2
8 X 10.2	8.0	10.2 ± 0.3	8.3	9	0.7 ~ 1.0	3.2
10 X 10.2	10.0	10.2 ± 0.3	10.3	11	1.0 ~ 1.4	4.6
12.5 X 13.5	12.5	13.5 ± 0.5	12.8	13.5	1.0 ~ 1.4	4.6
16 X 16.5	16.0	16.5 +0.5	16.3	17.3	1.7 ~ 2.1	7.0