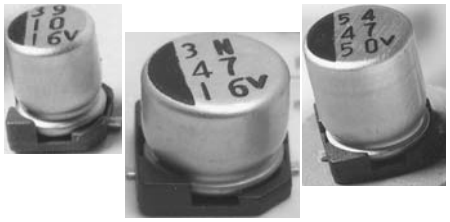
Tecate Group

SURFACE MOUNT ALUMINUM LOWEST ESR — TYPE MXZX

FEATURES

- Lowest ESR available.
- Small sizes.
- Long life 2000~ 5000Hr Life
- Designed for automatic mounting.
- Solvent resistant.



PART NUMBERING

Part Number Example: MXZX-035/101M8X10TR13F									
MXZX	-	035	/	101	M	8X10	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

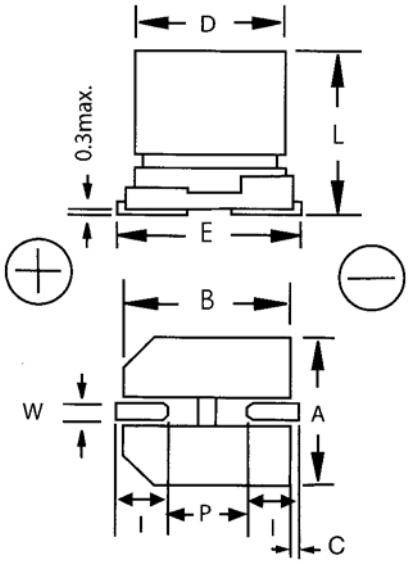
Performance Characteristics										
Operating Temperature Range	-55°C ~ +105°C.									
Voltage Range	6.3VDC ~ 100VDC.									
Capacitance Range	4.7μF ~ 6800μF.									
Capacitance Tolerance	±20% (M).									
Maximum Dissipation Factor (20°C, 120Hz)	Rated Voltage (WVDC)	6.3	10	16	25	35	50	63	80	100
	DF %	28	24	22	16	14	14	8	10	7
	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, 2000 hours) (5000Hr Life available for 8~16mm diam. upon request)	Capacitance Change	Within ±30% of initial measured value.								
	DF	Less than 300% of initial maximum specified value.								
	Leakage Current	Within initial maximum specified value.								

STANDARD PRODUCT TABLE

Capacitance (μF)	WVDC								
	6.3	10	16	25	35	50	63	80	100
4.7					4X5.8	4X5.8			
10				4X5.8	5X5.8	6.3X5.8			
15			4X5.8	5X5.8	5X5.8	6.3X5.8			
22		4X5.8	5X5.8	5X5.8	5X5.8	6.3X5.8		8X10.2	8x10.2
27	4X5.8	5X5.8	5X5.8	6.3X5.8	6.3X5.8	6.3X7.7			
33	5X5.8	5X5.8	6.3X5.8	6.3X5.8	6.3X5.8	6.3X7.7	8x10.2	8X10.2	10X10.2
47	5X5.8	6.3X5.8	6.3X5.8	6.3X5.8	6.3X5.8	6.3X7.7	8x10.2	10X10.2	12.5X13.5
56	5X5.8	6.3X5.8	6.3X5.8	6.3X5.8	6.3X7.7	8X10.2			
68	6.3X5.8	6.3X5.8	6.3X5.8	6.3X5.8	6.3X7.7	8X10.2			
100	6.3X5.8	6.3X5.8	6.3X5.8	6.3X7.7	8X10.2	8X10.2	10x10.2	12.5X13.5	16X16.5
150	6.3X5.8	6.3X5.8	6.3X7.7	8X10.2	8X10.2	10X10.2	12.5X13.5	12.5X13.5	16X16.5
220	6.3X5.8	6.3X7.7	6.3X7.7	8X10.2	8X10.2	10X10.2	12.5X13.5		
330	6.3X7.7	8X10.2	8X10.2	8X10.2	10X10.2	12.5X13.5		16X16.5	
470	8X10.2	8X10.2	8X10.2	10X10.2	12.5X13.5	16X16.5	16X16.5		
680	8X10.2	10X10.2	10X10.2	12.5X13.5	12.5X13.5	16X16.5			
1000	8X10.2	10X10.2	12.5X13.5	12.5X13.5	16X16.5	16X16.5			
1500	10X10.2	12.5X13.5	12.5X13.5	16X16.5	16X16.5				
2200	12.5X13.5	12.5X13.5		16X16.5					
3300			16X16.5						
4700		16X16.5							
6800	16X16.5								

DIMMENSIONS

Size D ±0.5 x L max	A & B ± 0.2	E Max.	I	P	W	C
4 x 5.8	4.3	5	2.0	1.0	0.5~0.8	0.35 + 0.15 - 0.20
5 x 5.8	5.3	6	2.3	1.4	0.5~0.8	0.35 + 0.15 - 0.20
6.3 x 5.8	6.6	7.3	2.55	2.2	0.5~0.8	0.35 + 0.15 - 0.20
6.3 x 7.7	6.6	7.3	2.55	2.2	0.5~0.8	0.35 + 0.15 - 0.20
8 x 10.2	8.3	9	2.9	3.2	0.7~1.0	0.70 ± 0.3
10 x 10.2	10.3	11	3.2	4.6	1.1~1.4	0.70 ± 0.3
12.5 x 13.5	12.8	13.5	4.45	4.6	1.1~1.4	0.70 ± 0.3
16 x 16.5	16.3	17.3	5.15	7.0	1.7~2.1	0.70 ± 0.3



IMPEDANCE @100KHz / RIPPLE CURRENT, mA

Capacitance (µF)	WVDC								
	6.3	10	16	25	35	50	63	80	100
4.7					1.45/90	2.9/60			
10				1.45/90	0.70/170	0.88/165			
15			1.45/90	0.70/170	0.70/170	0.88/165			
22		1.45/90	0.70/170	0.70/170	0.70/170	0.88/165		0.90/140	0.90/140
27	1.45/90	0.70/170	0.70/170	0.39/250	0.39/250	0.68/195			
33	0.70/170	0.70/170	0.70/170	0.39/250	0.39/250	0.68/195	0.35/280	0.90/140	0.65/200
47	070/170	0.39/250	0.39/250	0.39/250	0.39/250	0.68/195	0.35/280	0.50/220	0.32/500
56	0.70/170	0.39/250	0.39/250	0.39/250	0.30/300	0.34/300			
68	0.39/250	0.39/250	0.39/250	0.39/250	0.30/300	0.34/300			
100	0.39/250	0.39/250	0.39/250	0.30/300	0.17/450	0.34/300	0.20/480	0.24/500	0.17/793
150	0.39/250	0.39/250	0.30/300	0.17/450	0.17/450	0.18/490	0.16/580	0.24/500	0.17/793
220	0.39/250	0.30/300	0.30/300	0.17/450	0.17/450	0.18/490	0.16/580		
330	0.30/300	0.17/450	0.17/450	0.17/450	0.09/670	0.12/620		0.14/800	
470	0.17/450	0.17/450	0.17/450	0.06/900	0.06/900	0.073/1610	0.082/1410		
680	0.17/450	0.09/670	0.09/670	0.06/900	0.06/900	0.073/1610			
1000	0.17/450	0.09/670	0.06/900	0.06/900	0.035/1800	0.073/1610			
1500	0.09/670	0.06/900	0.06/900	0.035/1800	0.035/1800				
2200	0.06/900	0.06/900		0.035/1800					
3300			0.035/1800						
4700		0.035/1800							
6800	0.035/1800								