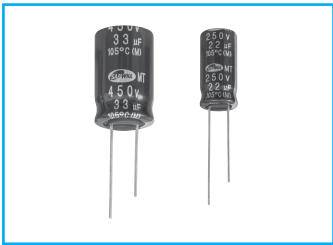


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

MT For Display, 12000 hours at 105°C Series

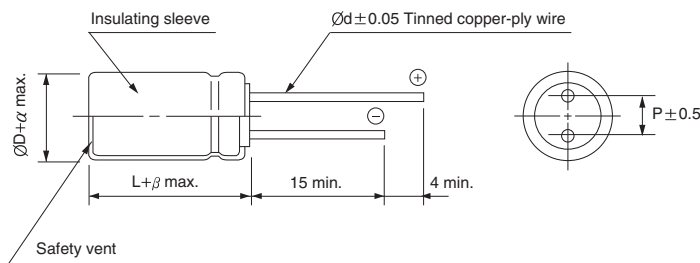
- High reliability withstanding 12000 Hours load life at 105°C
- For power supply and adapter
- Complied to the RoHS directive



Item	Characteristics								
Operating temperature range	-40 ~ +105℃								
Leakage current max.	I = 0.04CV+100μA (after 1 minutes) I = 0.02CV+25μA (after 5 minutes)								
Capacitance tolerance	±20% at 120Hz, 20℃								
Dissipation factor max. (at 120Hz, 20℃)	WV	160	200	250	350	400	420	450	500
	tanδ	0.20			0.24				
Low temperature characteristics (Impedance ratio at 120Hz)	WV	160	200	250	350	400	420	450	500
	Z-25℃/Z+20℃	3	3	3	3	6	6	6	6
	Z-40℃/Z+20℃	4	4	4	6	6	6	6	6
Load life	After an application of DC bias voltage plus the rated AC ripple current for 12000 hours at 105℃. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.								
	Leakage current			Less than specified value					
	Capacitance change			Within ±20% of initial value					
	tanδ			Less than 200% of specified value					
Shelf life (at 105℃)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20℃ by the KS C IEC 60384 - 4								

DRAWING

Unit : mm



ØD	10	12.5	16	18	20
P	5.0	5.0	7.5	7.5	10.0
Ød	0.6	0.6	0.8	0.8	0.8
β	2.0				3.0
α	0.5				1.0

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF \ Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
10 ~ 82	1.00	1.75	2.25	2.45	2.50
100 ~ 470	1.00	1.67	2.05	2.20	2.25

MT series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	160		200		250		350	
10	10 × 16	102	10 × 16	110	10 × 12.5	110	10 × 16	135
22	10 × 16	195	10 × 16	200	10 × 16	195	12.5 × 20	270
27	10 × 16	222	10 × 16	222	10 × 20	240	12.5 × 20	285
33	10 × 16	245	10 × 20	280	12.5 × 20	294	12.5 × 25	290
39	10 × 16	265	10 × 20	305	12.5 × 20	322	12.5 × 25	320
47	10 × 20	335	10 × 20	335	12.5 × 20	400	16 × 25	410
			12.5 × 20	400				
68	12.5 × 20	400	12.5 × 20	447	12.5 × 25	540	16 × 25	550
			12.5 × 25	540	16 × 20	540		
82	12.5 × 20	450	12.5 × 25	560	16 × 20	600	18 × 25	625
			16 × 20	560				
100	12.5 × 25	525	16 × 25	652	16 × 25	652	18 × 31.5	743
	16 × 20	525			18 × 20	652		
120	12.5 × 25	580	16 × 25	714	16 × 25	714	18 × 35.5	840
	16 × 25	580						
150	16 × 25	750	16 × 25	760	18 × 25	820	18 × 35.5	942
180	16 × 25	810	16 × 31.5	850	18 × 31.5	920		
220	16 × 31.5	880	18 × 31.5	1000	18 × 31.5	1000		
	18 × 25	880						
270	16 × 35.5	1000	18 × 35.5	1150				
330	16 × 40	1142	18 × 40	1250				
	18 × 31.5	1119						
470	18 × 40	1401						

μF \ WV	400		420		450		500	
10	10 × 16	135	10 × 20	135	10 × 20	135	12.5 × 20	165
22	12.5 × 20	270	12.5 × 20	225	12.5 × 25	296	16 × 20	260
27	12.5 × 25	285	12.5 × 20	254	12.5 × 25	305	16 × 25	329
33	12.5 × 25	320	16 × 20	345	16 × 20	364	16 × 25	350
39	12.5 × 30	320	16 × 25	345	16 × 25	400	16 × 31.5	413
47	16 × 25	420	16 × 25	450	16 × 25	450	16 × 35.5	462
	18 × 20	436	18 × 20	450	18 × 20	450	18 × 31.5	468
68	16 × 31.5	540	18 × 25	520	18 × 25	560	16 × 45	630
	18 × 25	540	18 × 31.5	580	18 × 31.5	590	18 × 35.5	600
82	18 × 31.5	700	18 × 31.5	650	16 × 40	650	16 × 50	685
					18 × 31.5	670	18 × 40	670
100	18 × 31.5	743	16 × 45	770	16 × 45	770	18 × 45	800
	18 × 35.5	820	18 × 35.5	770	18 × 35.5	790	20 × 41	800
120	18 × 35.5	840	16 × 50	850	16 × 50	850	18 × 50	920
	18 × 40	912	18 × 40	850	18 × 40	850		
150	18 × 40	1020	18 × 45	1000				
			20 × 41	1000				
180	20 × 41	1080						

↑ Ripple current (mA rms) at 105°C, 120Hz

↑ Case size ØD × L (mm)