

ML SERIES
105°C 5mm~9mm Height, Long Life

*Load Life : 105°C 3000~5000 hours.

 RoHS
compliance

◆SPECIFICATIONS

Items	Characteristics																																	
Category Temperature Range	-40~+105℃																																	
Rated Voltage Range	6.3~50Vdc																																	
Capacitance Tolerance	±20% (20℃,120Hz)																																	
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																																	
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tanδ</td><td>0.40</td><td>0.35</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.20</td></tr></table> (20℃,120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	tanδ	0.40	0.35	0.30	0.25	0.20	0.20													
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Endurance	After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="5">Within ±30% of the initial value.</td><td><table><tr><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>L=5mm</td><td>3000</td></tr><tr><td>L≥7mm</td><td>5000</td></tr></table></td></tr><tr><td>Dissipation Factor</td><td colspan="5">Not more than 300% of the specified value.</td><td></td></tr><tr><td>Leakage Current</td><td colspan="5">Not more than the specified value.</td><td></td></tr></table>							Capacitance Change	Within ±30% of the initial value.					<table><tr><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>L=5mm</td><td>3000</td></tr><tr><td>L≥7mm</td><td>5000</td></tr></table>	Case Size	Life Time (hrs)	L=5mm	3000	L≥7mm	5000	Dissipation Factor	Not more than 300% of the specified value.						Leakage Current	Not more than the specified value.					
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>6</td><td>4</td><td>4</td><td>3</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>12</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td></tr></table> (120Hz)							Rated Voltage (Vdc)	6.3	10	16	25	35	50	Z(-25℃)/Z(20℃)	6	4	4	3	2	2	Z(-40℃)/Z(20℃)	12	10	8	6	4	4						
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◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≤
Coefficient					
1 μF	0.50	1.00	1.20	1.30	1.50
2.2~6.8 μF	0.65	1.00	1.20	1.30	1.50
10~82 μF	0.80	1.00	1.20	1.30	1.50
100~1000 μF	0.80	1.00	1.10	1.15	1.20

◆OPTION

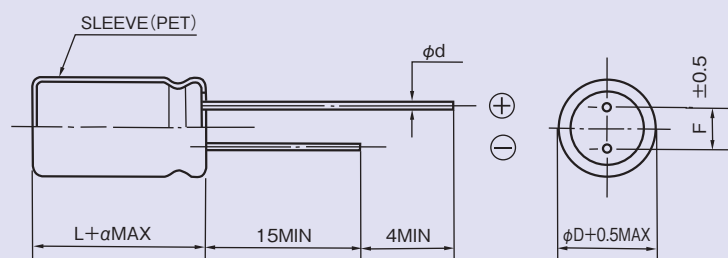
	Code
PET Sleeve	EFC

◆PART NUMBER

	ML		M			DxL
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



ϕD	4	5	6.3	8×5	8×7	8×7.5	8×9	10
ϕd	0.45						0.6	
F	1.5	2.0	2.5		3.5			5.0
α	L=7 : α =1.0 L=5 : α =1.5			1.5	1.0		2.0	

◆STANDARD SIZE

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)[illegible]