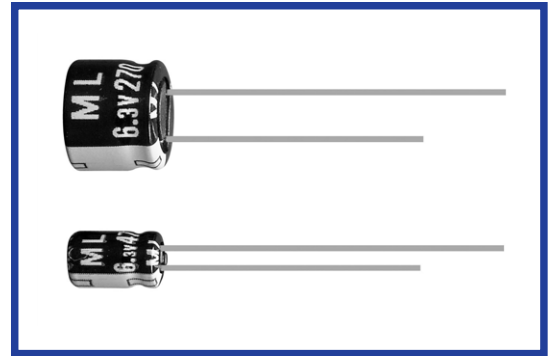


ML SERIES

105°C Long Life, 5mm~9mm Height.

◆FEATURES

- Load Life : 105°C 3000~5000 hours.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-40~+105℃																											
Rated Voltage Range	6.3~50V.DC																											
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(V)																											
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							
Rated Voltage (V)	6.3	10	16	25	35	50																						
tanδ	0.40	0.35	0.30	0.25	0.20	0.20																						
Endurance	After life test with ripple current at conditions stated in the table below at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±30% of the initial value.</td><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>Dissipation Factor</td><td>Not more than 300% of the specified value.</td><td>L=5mm</td><td>3000</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td><td>L≥7mm</td><td>5000</td></tr></table>							Capacitance Change	Within ±30% of the initial value.	Case Size	Life Time (hrs)	Dissipation Factor	Not more than 300% of the specified value.	L=5mm	3000	Leakage Current	Not more than the specified value.	L≥7mm	5000									
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Low Temperature Stability Impedance Ratio(MAX)	<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>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 (V)	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
Rated Voltage (V)	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																						

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60 (50)	120	500	1k	10k≤
Coefficient	1μF	0.50	1.0	1.20	1.30 1.50
	2.2~6.8μF	0.65	1.0	1.20	1.30 1.50
	10~82μF	0.80	1.0	1.20	1.30 1.50
	100~1000μF	0.80	1.0	1.10	1.15 1.20

◆OPTION

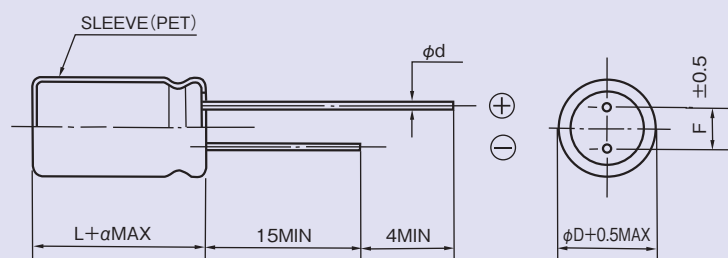
	Code
PET Sleeve	EFC

◆PART NUMBER

□□□ ML □□□□□ M □□□ □□ D×L
 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), Ripple Current (mA r.m.s./105°C, 120Hz)[illegible]