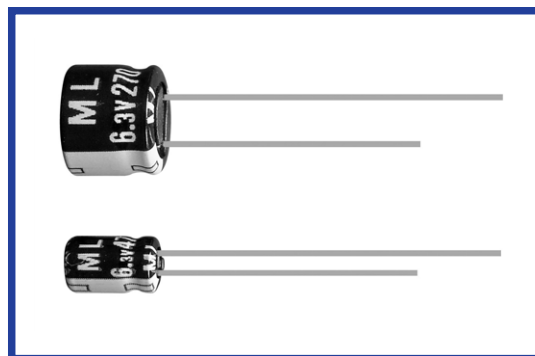


**ML SERIES**
**105°C Long Life, 5mm~9mm Height.**
**◆FEATURES**

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


**◆SPECIFICATIONS**

Items	Characteristics																								
Category Temperature Range	-40~+105°C																								
Rated Voltage Range	6.3~50V.DC																								
Capacitance Tolerance	±20% (20°C, 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)																								
(tanδ) Dissipation Factor(MAX)	<table border="1"> <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> <td>(20°C, 120Hz)</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> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C, 120Hz)	tanδ	0.40	0.35	0.30	0.25	0.20	0.20									
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tanδ	0.40	0.35	0.30	0.25	0.20	0.20																			
Endurance	<p>After life test with ripple current at conditions stated in the table below at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <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 border="1"> <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> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)	Z(-25°C)/Z(20°C)	6	4	4	3	2	2		Z(-40°C)/Z(20°C)	12	10	8	6	4	4	
Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)																		
Z(-25°C)/Z(20°C)	6	4	4	3	2	2																			
Z(-40°C)/Z(20°C)	12	10	8	6	4	4																			

**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency Coefficient

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	sCase Size

