

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

*Load Life : 105°C 3000~5000 hours.


◆ SPECIFICATIONS

Items	Characteristics																								
Category Temperature Range	-40~+105°C																								
Rated Voltage Range	6.3~50Vdc																								
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(Vdc)																								
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <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> </tbody> </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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Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. <table border="1"> <thead> <tr> <th>Capacitance Change</th> <th>Within ±30% of the initial value.</th> <th>Case Size</th> <th>Life Time (hrs)</th> </tr> </thead> <tbody> <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> </tbody> </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"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>(120Hz)</th> </tr> </thead> <tbody> <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> </tbody> </table>	Rated Voltage (Vdc)	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	
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◆ MULTIPLIER FOR RIPPLE CURRENT

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

◆ OPTION

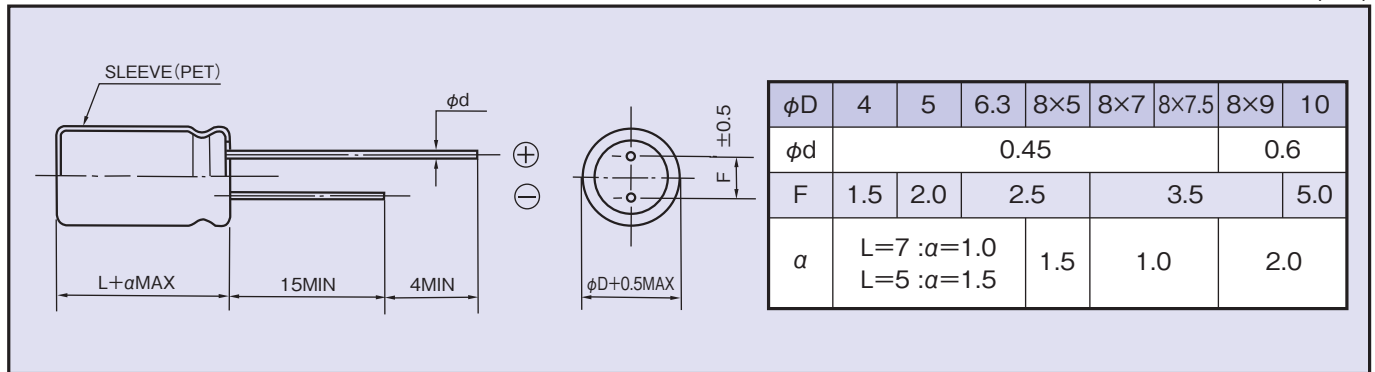
	Code
PET Sleeve	EFC

◆ PART NUMBER

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

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

Cap(μ F)	Vdc		6.3		10		16		25		35		50		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
1													4×5	8	
2.2													4×5	11	
3.3													4×5	14	
4.7													4×7	23	
6.8										4×5	17		5×5	25	
10									4×5	18	4×7	28	5×7	30	
12										5×5	34	6.3×5	37		
15									4×7	35					
18						4×5	20			5×7	48	6.3×7	50		
22			4×5	22	4×7	40	5×5	42				8×5	62	6.3×7	62
27	4×5	25					5×7	57	6.3×5	58					
33			4×7	43	5×5	45						8×7	75		
39					5×7	65			6.3×7	76					
47	4×7	47	5×5	48			6.3×5	65	8×5	80					
56	5×5	50	5×7	68			6.3×7	85	8×7	105	8×7.5	115			
68					6.3×5	70									
82	5×7	75					8×5	100				8×9	160		
100			6.3×5	75	6.3×7	95	8×7	112	8×7.5	125					
120	6.3×5	80	6.3×7	100	8×5	110						10×9	315		
150					8×7	125	8×7.5	140	8×9	180					
180	6.3×7	110	8×5	120											
220	8×5	125	8×7	160	8×7.5	170	8×9	190	10×9	360					
270	8×7	165													
330			8×7.5	180	8×9	195	10×9	450							
470	8×7.5	190	8×9	210	10×9	460									
560	8×9	230													
680			10×9	470											
1000	10×9	480													