

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°C					
Rated Voltage Range	6.3~50Vdc					
Capacitance Tolerance	±20% (20°C, 120Hz)					
Leakage Current(MAX)	$I=0.01CV$ or $3\mu A$ whichever is greater. (After 2 minutes application of rated voltage) I =Leakage Current(μA) C =Capacitance(μF) V =Rated Voltage(Vdc)					
Dissipation Factor(MAX) (tan δ)	Rated Voltage (V)	6.3	10	16	25	35 50
		tan δ	0.40	0.35	0.30	0.25 0.20 0.20
Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.					
	Capacitance Change	Within ±30% of the initial value.				Case Size
	Dissipation Factor	Not more than 300% of the specified value.				L=5mm
	Leakage Current	Not more than the specified value.				L≥7mm
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)	6.3	10	16	25	35 50
	$Z(-25^{\circ}C)/Z(20^{\circ}C)$	6	4	4	3	2 2
	$Z(-40^{\circ}C)/Z(20^{\circ}C)$	12	10	8	6	4 4

◆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

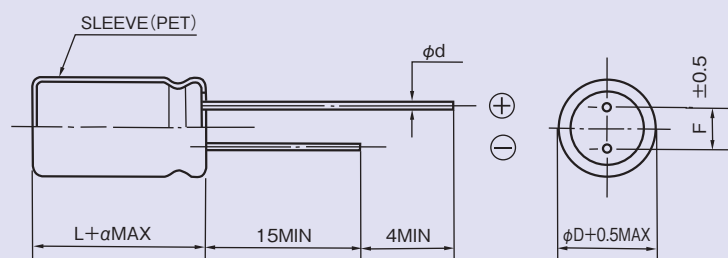
	Code
PET Sleeve	EFC

◆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]