

Vertical SMD Type

For LCD MT/TV, AVN, STB, Tuner
 Size from $\Phi 4 \times 5.7L$ to $\Phi 10 \times 10.5L$
 Guaranteed 3000–5000 hours at 105°C
 RoHS compliant
 Halogen-free

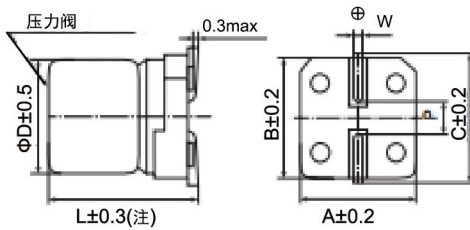


Specifications

No.	Item	Performance							
1	Temperature range(°C)	-40 to +105							
2	Rated Voltage Range	6.3-50VDC							
3	Leakage current (μA)	Rated Voltage (VDC)	6.3-50						
		0.03CV or 4uA, whichever is greater (at 20°C, 2minutes)							
4	Capacitance tolerance (%)	±20 (20°C, 120Hz)							
5	Tangent of the loss angle (Tan δ)	Rated voltage (V)	6.3	10	16	25	35	50	
		Tanδ(max)	0.28	0.24	0.20	0.16	0.13	0.12	
		0.02 is added to each 1000uF increase over 1000uF (20°C, 120Hz)							
6	Low temperature characteristics Impedance ratio (max)	Rated voltage (V)	6.3	10	16	25	35	50	
		$Z_{(-25^{\circ}C)}/Z_{(+20^{\circ}C)}$	4	3	2	2	2	2	
		$Z_{(-40^{\circ}C)}/Z_{(+20^{\circ}C)}$	12	8	6	4	3	3	
7	Endurance (105°C) (Applied ripple current)	Test time	The following specifications shall be satisfied when the capacitors are restores to 20°C after the rated voltage is applied for 3,000 hours at 105°C (F105–G105, 5,000 hours)						
		Rated Voltage(VDC)	6.3-50						
		Leakage current	The initial specified value or less						
		Percentage of capacitance change	Within ± 30% of initial value						
		Tangent of the loss angle	300% or less of the initial specified value						
8	Shelf life (105°C)	Test time	The following specifications shall be satisfied when the capacitors are restores to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum for 30 minutes, at least 24 hours and not more than 48 hours before the measurements.						
		Rated Voltage(VDC)	6.3-50						
		Leakage current	The initial specified value or less						
		Percentage of capacitance change	Within ± 30% of initial value						
		Tangent of the loss angle	300% or less of the initial specified value						



Dimensions

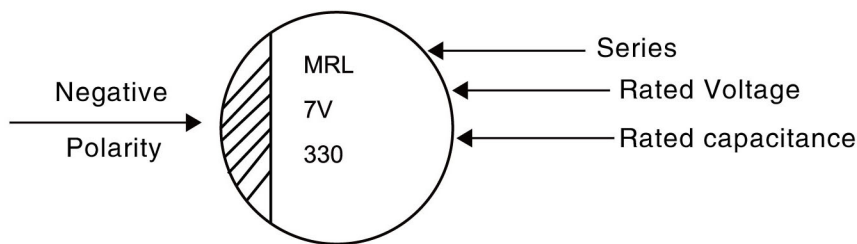


: Dummy terminals

Note1: $L \pm 0.5$ for 8x7 (F070)-18x21.5 (K215)

Case Code	D	L	A	B	C	W	P
B057	4	5.7	4.3	4.3	5.1	0.5-0.8	1.0
C057	5	5.7	5.3	5.3	5.9	0.5-0.8	1.4
E057	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9
E077	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9
F070	8	7.0	8.3	8.3	9.0	0.7-1.1	3.1
F105	8	10.5	8.3	8.3	9.0	0.7-1.1	3.1
G105	10	10.5	10.3	10.3	11.0	0.7-1.1	4.7

Marking



Coefficient of Frequency for Ripple Current

Capacitance (uF)	Frequency (Hz)			
	120	1K	10K	100K
1.0	1.00	1.50	1.75	1.80
2.2 to 10	1.00	1.30	1.40	1.50
22 to 1,000	1.00	1.05	1.08	1.08

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.



Dimension: Φ DXL(mm)

Ripple Current: mA/rms at 120Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC Contents μ F	6.3V		10V		16V		25V	
	Φ DXL	mA	Φ DXL	mA	Φ DXL	mA	Φ DXL	mA
10					4X5.7	18		
22	4X5.7	22			5X5.7	30		
33	5X5.7	36	5X5.7	35	5X5.7	30	6.3X5.7	48
47	5X5.7	36	5X5.7	36	6.3X5.7	50	6.3X7.7	60
100	6.3X5.7	60	6.3X5.7	60	6.3X7.7	80	8X10.5	115
150	6.3X5.7	60	6.3X7.7	100	6.3X7.7	80	8X10.5	115
220	6.3X7.7	100	8X10.5	140	8X10.5	80	8X10.5	115
330	8X10.5	160	8X10.5	140	8X10.5	80	10X10.5	235
470	8X10.5	140	8X10.5	140	10X10.5	250		
1,000	10X10.5	310	10X10.5	310				

V.DC Contents μ F	35V		50V	
	Φ DXL	mA	Φ DXL	mA
1.0			4X5.7	6
2.2			4X5.7	11
3.3			4X5.7	14
4.7	4X5.7	15	5X5.7	19
10	5X5.7	25	6.3X5.7	30
22	6.3X5.7	40	6.3X7.7	49
33	6.3X7.7	55	8X10.5	77
47	6.3X7.7	55	8X10.5	92
56	6.3X7.7	55		
68	6.3X7.7	55	8X10.5	77
100			10X10.5	350
150			10X10.5	350
220	10X10.5	215		

