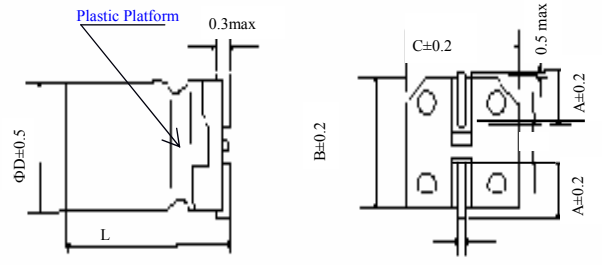
- High temperature up to +125ºC with load life of 1000~2000 hours
- Lead free soldering product is available subject to customers request

SPECIFICATIONS

Item	Characteristics
Operating Temperature Range (°C)	-40~+125 ºC
Leakage Current (μ A)	After 2 minutes application of rated voltage, leakage current is not more than 0.002 CV or 0.5 μ A, whichever is greater.
Capacitance Tolerance (20°C,120 Hz)	±20% at 120 Hz, 20ºC
Surge Voltage & Max Tan δ 120Hz, Temperature 20ºC	Rated voltage (V): 10 / 16 / 25 / 35 / 50 Tan δ: 0.32 / 0.24 / 0.21 / 0.18 / 0.18
Low Temperature Stability	Rated voltage (V): 10 / 16 / 25 / 35 / 50 Impedance ratio ZT/Z20 (max) Z-25ºC/Z+20ºC: 12 / 8 / 6 / 4 / 4
Load Life (85°C)	Capacitance Change: Within ±30% of initial value Tan δ: 200 or less of Initial specified value Leakage Current: Initial specified value or less
Shelf Life	After leaving capacitors under no load at 105ºC for 1000 hours, they meet the specified value for load life characteristics listed above.
Resistance to soldering heat	After re-flow soldering according to re-flow soldering condition and restored at room temperature, the meet the characteristics requirements listed at right Capacitance Change: Within ±10% of initial value Tan δ: High specified value or less Leakage Current: Initial specified value or less

DIMENSIONS



Lead spacing and diameter (mm)

ϕDxL	6.3x5.8	6.3x7.7	8x10.5	10x10.5
A	2.4	2.4	2.9	3.2
B	6.6	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3
E	2.2	2.2	3.1	4.5
L	5.8	7.7	10.5	10.5

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz
Coefficient	0.70	1.00	1.17	1.36	1.50

■ Standard Ripple Current

WV / Cap(μF)		10		16		25		35		50	
10	10R							6.3x5.8	38	6.3x7.7	24
22	22R							6.3x5.8	39	6.3x7.7	38
33	33R					6.3x5.8	45	6.3x7.7	44	8x10.5	46
47	47R			6.3x5.8	43	6.3x7.7	48	8x10.5	52	10x10.5	58
100	101	6.3x7.7	58	8x10.5	66	8x10.5	74	10x10.5	80		
220	221	8x10.5	90	10x10.5	102	10x10.5	116				
330	331	10x10.5	112							Case Size	Allowable Ripple