Organic Conductive Polymer Capacitors OCRK

Features
- 105℃, 5,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance

Marking color: Blue

SPECIFICATIONS

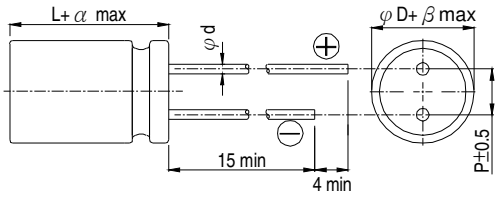
Items	Performance
Category Temperature Range	-55℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)
Leakage Current (at 20℃)*	Rated voltage applied, after 2 minutes at 20℃. See Standard Ratings
Dissipation Factor (Tan δ at 120Hz, 20℃)	See Standard Ratings
ESR (at 100k~300k Hz, 20℃)	See Standard Ratings
Endurance	Test Time: 5,000 Hrs Capacitance Change: Within ±20%of initial value Dissipation Factor: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value *The above specifications shall be satisfied when the capacitors are restored to 20℃after the rated voltage applied for 5,000 hours at 105℃.
Moisture Resistance	Test Time: 1,000 Hrs Capacitance Change: Within ±20%of initial value Dissipation Factor: Less than 150% of specified value ESR: Less than 150% of specified value Leakage Current: Within specified value *The above specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them at 60℃, 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.
Resistance to Soldering Heat * (Please refer to page 10 for soldering conditions)	Capacitance Change: Within ±10% of initial value Dissipation Factor: Less than 130% of specified value ESR: Less than 130% of specified value Leakage Current: Within specified value
Ripple Current & Frequency Multipliers	Frequency (Hz): 120 ≦ f < 1k | 1k ≦ f < 10k | 10k ≦ f < 100k | 100k ≦ f < 500k Multiplier: 0.05 | 0.3 | 0.7 | 1.0

* For any doubt about measured values, measure the leakage current again after the following voltage treatment.
Voltage treatment: Applying DC rated voltage to the capacitors for 2 hours at 105 °C.

DIAGRAM OF DIMENSIONS

Unit: mm

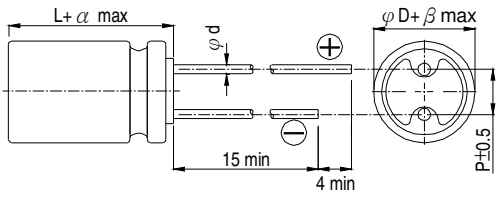
6.3φ×8L



LEAD SPACING AND DIAMETER

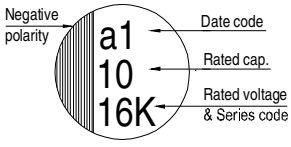
φD	6.3	8	10
L	8	12	12.5
P	2.5	3.5	5.0
φd	0.6		
α	1.0		1.5
β	0.5		

8φ×12L and 10φ×12.5L

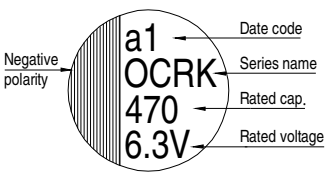


MARKING

φD = 6.3



φD = 8 ~ 10



STANDARD RATINGS

Dimension: φD×L(mm)
Ripple Current: mA/rms at 100k Hz, 105℃

W. V. (V)	Capacitance (μF)	Size φD×L(mm)	Tan δ (120Hz, 20℃)	L C (μA)	E S R (mΩ/at 100k ~ 300k Hz, 20℃ Max)	Rated R. C. (mA/rms at 100k Hz, 105℃)
2.5V (0E)	820	6.3×8	0.10	500	7	5,000
4V (0G)	560	6.3×8	0.10	500	7	5,000
6.3V (0J)	390	8×11.5	0.15	491	12	3,400
	470	6.3×8	0.10	592	8	4,700
		8×11.5	0.15	592	12	3,400
	560	6.3×8	0.10	706	8	4,700
	820	10×12.5	0.15	1,033	10	4,000
10V (1A)	330	8×11.5	0.12	660	14	3,100
	560	10×12.5	0.12	1,360	12	3,800
16V (1C)	180	8×11.5	0.12	576	16	3,000
	330	10×12.5	0.12	1,056	14	3,600