

<b>CONDUCTIVE POLYMER SOLID CAPACITORS</b>		<b>APPROVAL NO.</b> <b>10116</b>
<b>AXV 6.3 VC 1500 (M)</b>		<b>SERIES</b> AXV
		<b>RATING</b> 6.3 V 1500 $\mu$ F
		<b>CASE SIZE</b> $\Phi$ 10 X 10 L

**A. DIAGRAM OF DIMENSION**

Recommended Solder land on PC board

[UNIT: mm]

Case code	ØD	L	A	B	C	W	P	a	b	c
J10	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5	4.5	4.4	2.2

Note 1 : 6.3 WV is marked by 6V

**B. ELECTRICAL CHARACTERISTICS**

- A. OPERATING TEMPERATURE RANGE : - 55 ~ +105 °C
- B. RATED VOLTAGE : 6.3 V<sub>DC</sub>
- C. SURGE VOLTAGE : 8.2 V<sub>DC</sub> at 105 °C
- D. CAPACITANCE TOLERANCE : ± 20% at 20 °C, 120Hz
- E. LEAKAGE CURRENT : Lower 1890  $\mu$ A, after 2 minutes at 20 °C
- F. DISSIPATION FACTOR (TAN $\delta$ ) : Lower 0.10 at 20 °C, 120Hz
- G. ESR : Lower 14 m $\Omega$  at 20 °C, 100kHz
- H. RATED RIPPLE CURRENT : 4570 mArms at 105 °C, 100kHz
- I. FREQUENCY COEFFICIENT FOR RIPPLE CURRENT

Freq.(Hz)	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k
Factor	0.05	0.3	0.7	1

- J. TEMPERATURE CHARACTERISTIC : 

Z(-25 °C) / Z(+20 °C)	≤ 1.15
Z(-55 °C) / Z(+20 °C)	≤ 1.25

 at 100kHz

K. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 5,000 hours at 105°C.

- # Capacitance change ≤ ± 20% of the initial value
- # Tan $\delta$  ≤ 150% of the initial specified value
- # ESR ≤ 150% of the initial specified value
- # Leakage Current ≤ The initial specified value

L. Bias Humidity : The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 60°C, 90 to 95%RH for 1,000 hours.

- # Capacitance change ≤ ± 20% of the initial value
- # Tan $\delta$  ≤ 150% of the initial specified value
- # ESR ≤ 150% of the initial specified value
- # Leakage Current ≤ The initial specified value

M. CLEANING CONDITIONS : Solvent-proof

\* Notes : If any doubt arises, remeasure the leakage current after following voltage treatment.  
Voltage treatment : Applying rated voltage for 120 minutes at 105°C.

