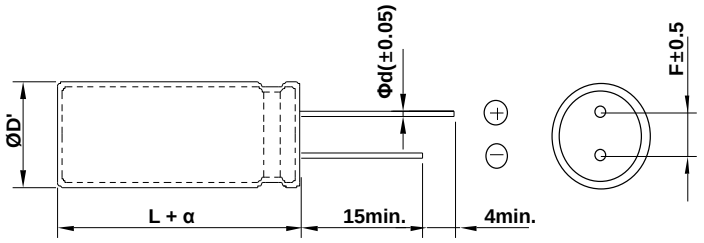
CONDUCTIVE POLYMER SOLID CAPACITORS

APPROVAL NO. 8676

AXA 16 VB 180 (M)

SERIES	AXA
RATING	16 V 180 μF
CASE SIZE	Φ 8 X 11.5 L

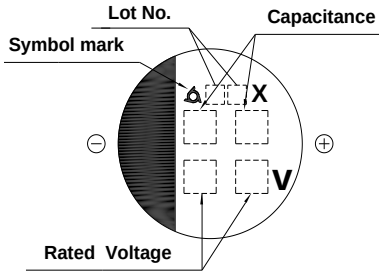
A. DIAGRAM OF DIMENSION



[UNIT: mm]

ΦD' (+0.5max.)	8
L	11.5
α	0.5
Φd(±0.05)	0.6
F(±0.5)	3.5

B. MARKING



C. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE : -55 ~ + 105℃
B. RATED VOLTAGE : 16 V_{DC}
C. SURGE VOLTAGE : 18.4 V_{DC} at 105℃
D. CAPACITANCE TOLERANCE : ± 20% at 20℃, 120㎐
E. LEAKAGE CURRENT : Lower 576 ㎂, after 2 minutes at 20℃
F. DISSIPATION FACTOR (TANδ) : Lower 0.10 at 20℃, 120㎐
G. ESR : Lower 20 mΩ at 20℃, 100㎑
H. RATED RIPPLE CURRENT : 3640 mArms at 105℃, 100㎑

I. FREQUENCY COEFFICIENT FOR RIPPLE CURRENT

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

J. TEMPERATURE CHARACTERISTIC

* Impedance ratio

Z(-55℃) / Z(+20℃)	≤ 1.25
Z(+105℃) / Z(+20℃)	≤ 1.25

at 100㎑

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

Capacitance change ≤ ± 20% of the initial value
Tanδ ≤ 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℃ after subjecting them to the DC rated voltage at 60℃, 90 to 95%RH for 1,000 hours.

Capacitance change ≤ ± 20% of the initial value
Tanδ ≤ 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℃.