

## ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

6509

BXJ 25 VC 47 (M)

SERIES

BXJ

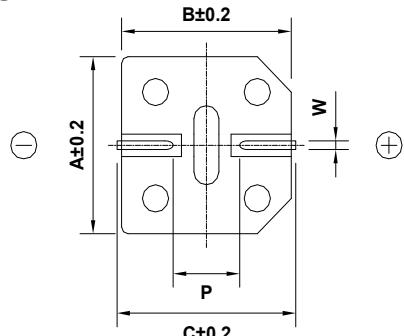
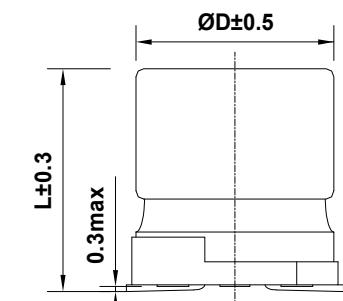
RATING

25 V 47  $\mu$ F

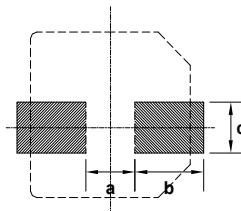
CASE SIZE

 $\varnothing$  6.3 x 5.2 L

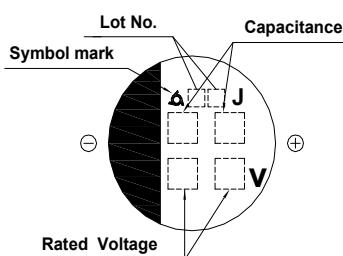
## A. DIAGRAM OF DIMENSIONS



Recommended Solder land on PC board



■ : Solder land on PC board



Case code	$\varnothing$ D	L	A	B	C	W	P	a	b	c
F55	6.3	5.2	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6

## B. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE	: -55 ~ +105 °C
B. RATED VOLTAGE	: 25 V <sub>DC</sub>
C. SURGE VOLTAGE	: 32 V <sub>DC</sub>
D. CAPACITANCE TOLERANCE	: ± 20% at 20 °C, 120Hz
E. LEAKAGE CURRENT	: Lower 11.75 $\mu$ A, after 2 minutes at 20 °C
F. DISSIPATION FACTOR (TANδ)	: Lower 0.14 at 20 °C, 120Hz
G. MAX. RIPPLE CURRENT	: 220 mArms at 105 °C, 100kHz
H. TEMPERATURE CHARACTERISTIC (Max. Impedance ratio)	: Z(-25 °C) / Z(20 °C) = 2 Z(-55 °C) / Z(20 °C) = 3 (at 120Hz)

I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20 °C after the rated voltage is applied for 2,000 hours at 105 °C.

# Capacitance change	≤ ±30 % of the initial value
# Tanδ	≤ 300 % of the initial specified value
# Leakage Current	≤ The initial specified value

J. SHELF LIFE : The following specifications shall be satisfied when the capacitors are restored 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 of 30 minutes, at least 24 hours and not more than 48 hours before the measurement.

# Capacitance change	≤ ±30 % of the initial value
# Tanδ	≤ 300 % of the initial specified value
# Leakage Current	≤ The initial specified value

K. CLEANING CONDITIONS : Solvent - proof

L. OTHERS : Satisfied characteristics KS C IEC 60384-4

\* IMP.(20 °C, 100kHz) : 0.55 ( $\Omega$ ) ↓



SamYoung Electronics Co., Ltd.