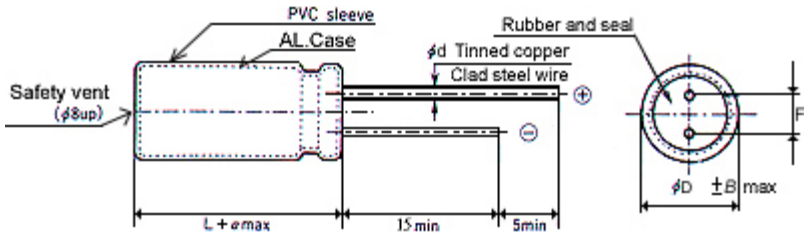
SZ series HIGH FREQUENCY,LOW IMPEDANCE FOR SWITCHING POWER SUPPLY.

Item	Characteristics
Operating Temperature Range	- 40~105ºC
Rated Working Voltage Range	10V~50V DC
Capacitance Tolerance (120Hz,25ºC)	±20%(M)
Leakage Current (25ºC)	I≦0.01CV+3(μ A) I: Leakage Current (μ A) C: Rated Capacitance(μ F) V:Working Voltage(V) After 5 minutes applying the DC working voltage
Surge Voltage (25ºC)	W.V. 10 16 25 35 50 S.V. 13 20 32 44 63
Disspation Fator (122Hz,25ºC) (Tan.θ)	W.V. 10 16 25 35 50 S.V. 0.14 0.12 0.10 0.10 0.08 For capacitance exceeding 1000 μF, add 0.02 per increment of 1000 μF
Temperature Characteristics	W.V. 10 16 25 35 50 -25ºC /+25ºC 3 2 2 2 2 -40ºC /+25ºC 6 4 4 3 3 Impedance ratio at 120Hz
Load Test	After 1000 hours application of W.V. at +105ºC the capacitor shall meet the following limits Capacitance change ≦±20% C of initial value Tan.θ ≦±150% C of initial specified value Leakage current ≦initial specified value
Shelf Test	After 500 hours application of W.V. at +105ºC the capacitor shall meet the following limits Capacitance change ≦20% C of initial value Tan.θ 200% C of initial specified value Leakage current ≦200% of initial specified value

SZ Dimensions



L≦16→α=1 Ø D≦10→β=0.5

L>16→α=2 Ø D≦10→β=1.0

Unit(mm)

D	5	6	8	10	13	16
F±0.5	2	2.5	3.5	5	5	7.5
d±0.02	0.5	0.5	0.5	0.6	0.6	0.8

DxL(mm)

μF\WV	10V	16V	25V	35V	50V
10					5x11
22	511	5x11	5x11	6x12	6x12
33	5x11	5x11	5x11	6x12	6x12
47	5x11	5x11	6x12	6x12	6x12
100	6x12	6x12	6x12	8x12	8x12
220	6x12	8x12	8x12	10x17	13x21
330	8x12	8x12	10x15	10x20	13x26
470	8x12	8x12	10x15	10x15	13x26
1000	10x20	10x20	10x20	13x21	16x26
2200	10x24	13x26	16x26	16x26	18x36
3300	13x31	13x31	16x26		
4700	13x31	16x26			

WV	10V		16V		25V		35V		50V	
ITEM\ uF	PERMISS-IBLERIP-PLECUR REN(mA)	IMPEDAN-CE 20 C 100KHz MAX( )	PERMISS-IBLE RIPPLECU-R REN(mA)	IMPEDA-NCE20 C 100KHz MAX( )	PERMIS-SIBLE RIPPLE-CURRE N (mA)	IMPEDAN-CE 20 C 100KHz MAX( )	PERMISS-IBLE RIPPLECU-R REN(mA)	IMPEDAN-CE 20 C 100KHz MAX( )	PERMISS-IBLE RIPPLECU-R REN(mA)	IMPEDAN-CE20 C 100KHz MAX( )
10									40	2.5
22	33	2.4	38	2.0	40	1.9	45	1.30	66	0.90
33	40	2.0	45	1.5	50	1.4	64	0.85	80	0.78
47	55	1.5	60	1.3	65	0.77	82	0.68	120	0.52
100	85	1.0	100	0.85	170	0.40	210	0.45	240	0.25
220	140	0.61	210	0.44	270	0.30	350	0.18	500	0.16
330	230	0.50	300	0.30	370	0.21	470	0.14	640	0.11
470	310	0.32	400	0.08	500	0.14	700	0.08	760	0.08
1000	560	0.12	760	0.10	880	0.08	960	0.05	1400	0.05
2200	900	0.07	1200	0.06	1300	0.05	1600	0.045		
3300	1200	0.061	1400	0.045	1600	0.045				
4700	1500	0.05	1700	0.042						

A-CAP PART NUMBER SYSTEM FOR ALUMINUM ELECTROLYTIC CAPACITORS

RoHS Compliant Pb Free

ORDERING INFORMATION

OPTIONAL DIMENSIONS AND LEAD SPACING (IF NOT STANDARD)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
S R	1 0 3	M	0 1 6	B	2 0 3 6	G	10.5
Series	Capacitance (µF)	Capacitance Tolerance (EIA Code)	Voltage Code	Packing Code	Diameter x Height (mm)	Lead Spacing	Lead Length (mm) (For lead cut only)

Series
SR
SA
GR
GA
SS
SK
SL
SZ
NR
NA
BA
LS
LB
SG

EXAMPLES: Capacitance	Code
0.1 µF	R10
0.68 µF	R68
1.0 µF	1R0
6.8 µF	6R8
10 µF	100
68 µF	680
100 µF	101
680 µF	681
1000 µF	102
6800 µF	682
10000 µF	103

Code	Tolerance
K	± 10%
*M	± 20%
Q	-10 ~ +30%
T	-10 ~ +50%

Rated Voltage	Code
10 V	010
16 V	016
25 V	025
35 V	035
50 V	050
63 V	063
100 V	100
160 V	160
200 V	200
250 V	250
350 V	350
400 V	400
450 V	450

Code	Packing Form and Lead
B	Bulk
A	Ammo Taping
T	Tape & Reel
C	Lead cut only
Z	Lead formed only
F	Lead cut & formed
Y	Lead kinked

Code	Lead Spacing Denoted By "F" (mm)
A	1.5 mm
B	2.0 mm
C	2.5 mm
D	3.5 mm
E	5.0 mm
F	7.5 mm
G	10.5 mm
H	12.5 mm

Can be any custom length. Examples. Code	Lead Length (mm)
3.5	3.5 mm
5.0	5.0 mm
7.5	7.5 mm
10.5	10.5 mm

EXAMPLES: Dimensions Diameter x Height (mm)	Code
4 x 7 mm	0407
5 x 11 mm	0511
6 x 7 mm	0607
6 x 11 mm	0611
8 x 9 mm	0809
8 x 12 mm	0812
10 x 17 mm	1017
13 x 21 mm	1321
16 x 26 mm	1626
20 x 36 mm	2036
22 x 41 mm	2241
25 x 56 mm	2556

ORDERING DESCRIPTION

(1) CAPACITOR SERIES

(2) CAPACITANCE CODE expressed in microfarads (µF) with three digit codes. The first two digits are significant ("R" indicates decimal point for under 10 µF) and the third digit represents the number of zeros to be added following the 2nd significant figure.

(3) TOLERANCE CODE [(M) is standard]

(4) RATED VOLTAGE in volts

(5) PACKAGING AND LEAD CONFIGURATION CODES

(6) SIZE (DIAMETER x HEIGHT in mm)

(7) LEAD SPACING in mm (Not applicable for AXIAL TYPE)

(8) LEAD LENGTH in mm (For lead cut only)

When placing an order for A-CAP ELECTROLYTIC CAPACITORS, product specifications are applied to develop part numbers as shown below:

EXAMPLE:
General purpose 1000 µF / 50 Volts / 20% / Radial Lead Cut / Lead spacing = 7.5mm / Lead Length = 7.5mm
NOTE: For Capacitance Value 1000 µF, 1 & 0 are significant digits then 2 zeros follow the 2nd signficant digit = Code 102

SR	102	M	050	C	1626	F	7.5

EXAMPLE:
High temperature load 470 µF / 25 Volts / 20% Radial Type (Tape & Reel) / Lead spacing = 5.0mm
NOTE: For Capacitance Value 470 µF, 4 & 7 are significant digits then 1 zero follows the 2nd significant digit = Code 471

GR	471	M	025	T	1021	E