LAN Axial, Non-Polarized, 105℃

Features

•There are non-polar capacitors designed for circuits with reversing polarity.
•Tolerance of±10% (k) if required can also be available on request.

Specifications

Item	Performance Characteristics							
voltage Range	10 to 100 VDC							
Capacitance Range	0.47~1000 μF							
Temperature Range	-40~+105°C							
Capacitance Tolerance	±20%(120Hz, +20°C)							
Leakage Current	I=0.03CV+4 (μA) I: Leakage current(μA) C: Rated Capacitance(μF) V: Working Voltage[V] After 5 minutes applying the DC working voltage							
Surge Voltage(20°C)	W.V.	10	16	25	35	50	63	100
	S.V.	13	20	32	44	63	79	125
Dissipation Factor (120Hz,20°C)	W.V.	10	16	25	35	50	63	100
	Tanδ	0.20	0.16	0.16	0.14	0.14	0.12	0.12

Temperature Characteristics (Tanδ)

W.V.		10	16	25	35	50	63	100
Impedance Ratio	-25 °C/+20 °C	3	2	2	2	2	2	2
	-40 °C/+20 °C	6	6	4	4	4	4	4

Impedance ratio of 120Hz

Load Test

After 1000 hours application of W.V. AT+105 °C
The capacitor shall meet the following limits.

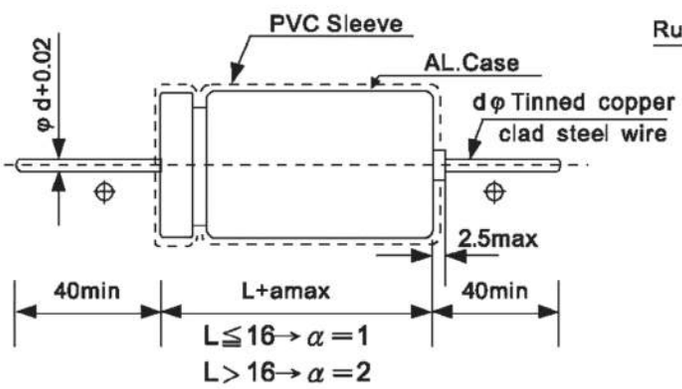
Capacitance Change	≦±20% of initial value
Tanδ	≦±200% of initial specified value
Leakage Current	≦±initial specified value

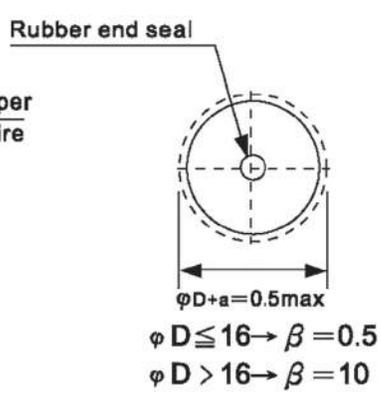
Shelf Test

After 500 hours application of W.V. AT+105 °C
The capacitor shall meet the following limits.

Capacitance Change	≦±20% of initial value
Tanδ	≦±200% of initial specified value
Leakage Current	≦±200% of initial specified value

Diagram of Dimensions: (Unit: mm)





Unit (mm)

Dφ	6	8	10	13	16
dφ	0.6	0.6	0.6	0.6	0.8

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Ripple Current & Frequency Multipliers

Freq.(Hz) / Cap.(μF)	50(60)	120	500	1K	10K UP
Under 100	0.70	1.00	1.30	1.40	1.50
100 < C≦1000	0.75	1.00	1.20	1.30	1.35

Case Size

ϕD x L (mm)

W.V. / μF	10		16		25		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10	→						6x16	55
15	→				6x16	60	6x16	63
22	→		6x16	64	6x16	70	6x16	75
33	6x16	70	6x16	80	6x16	85	8x16	98
47	6x16	87	8x16	95	8x16	105	8x16	130
68	6x16	110	8x16	130	8x16	140	10x21	170
100	8x16	135	8x16	175	10x21	190	10x21	230
150	8x16	180	10x21	230	10x21	250	10x26	290
220	10x21	240	10x21	300	10x26	320	13x26	400
330	10x21	315	10x26	380	13x26	450	13x26	490
470	10x26	400	10x26	480	13x26	560	13x32	640
680	10x26	570	13x26	650	13x32	750	16x33	880
1000	13x26	730	13x26	860	16x33	980	16x38	1150

•Ripple Current (mA, rms) at 105°C 120Hz

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Case Size

ϕD x L (mm)

W.V. / μF	50		63		100	
	Size	Ripple	Size	Ripple	Size	Ripple
0.47	6x16	10	6x16	12	6x16	12
1	6x16	16	6x16	16	6x16	20
2.2	6x16	24	6x16	24	6x16	32
3.3	6x16	29	6x16	35	6x16	47
4.7	6x16	39	6x16	42	8x17	55
6.8	8x17	48	6x16	50	8x17	58
10	8x17	67	8x17	70	10x21	95
15	8x17	70	8x17	86	10x21	98
22	8x17	109	8x20	124	10x24	171
33	10x20	143	10x20	166	13x26	210
47	10x20	181	10x24	219	13x26	271
68	10x20	200	13x26	240	13x26	290
100	10x24	295	13x26	390	13x26	430
150	13x26	350	13x26	445	16x38	550
220	13x31	542	16x33	627	-	-
330	16x33	751	16x33	770	-	-
470	16x42	790	16x42	950	-	-

•Ripple Current (mA, rms) at 105°C 120Hz