85555 Series Single Ended, Low Leakage

(−40°C to +85°C) ±20% Capacitance Tolerance

A-05-11-01

The Mini-super, radial leaded, Aluminum Electrolytics are available in capacity values from 0.1 μF to 100 μF and in voltage ratings from 10V to 63V. Their small size and low leakage currents are comparable to their equivalent tantalum counterparts. Their cost is considerably less.

Ordering Code Example

Example: 10 / 25 - 85555

Capacity

Voltage

Part Number

85556

End sealed

Operating Temperature Range

−40° to +85°

Leakage Current

(Max) after 2 min. of applied rated voltage at 25°C.

I_R = .002 x C x V or .4μA
I_R = Leakage Current in μA
C = Capacity in μF
V = Rated Voltage

Dissipation Factor

Tan δ at 25°C and 120 Hz

V	10	16	25	63
Tan δ	.2	.17	.15	.1

Surge Voltage

1.25 x Vdc

Life Test

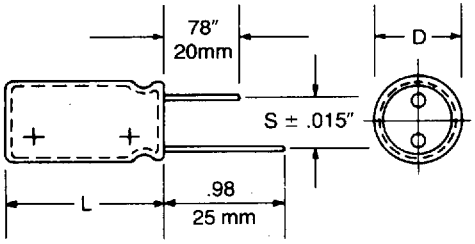
2,000 hours at 85°C with voltage applied. or
(1,000 hrs./ + 95°C/U_n or 500 hrs./ + 105°/U_n)

Failure Criteria

$\frac{\Delta C}{C}$ ≤ 20% of value initially measured.

Tan ≤ 200% of value initially specified.

I_R < Value initially specified.



A-05-11-01

85555 Series Single Ended, Low Leakage

(−40°C to +85°C) ±20% Capacitance Tolerance

Rated Voltage/ Surage Voltage		10 Vdc/ 13 Vdc	16 Vdc/ 20 Vdc	25 Vdc/ 32 Vdc	63 Vdc/ 79 Vdc
Rated Capacitance µF	Tol.	Mechanical Dimensions			
0.1	±20%				A
0.15					A
0.22					A
0.33					A
0.47					A
0.68					A
1.0					A
1.5					A
2.2					A
3.3				A	B
4.7				A	B
6.8			A	B	C
10.0			A	B	C
15.0			A	B	
22.0			B	C	
33.0			B	C	
47.0		B	C		
100.0		C			

85555 Series Single Ended, Low Leakage

(−40°C to +85°C) ±20% Capacitance Tolerance

A-05-11-01

SIEMENS AKTIENGESELLSCHAF 47E D

Size Code	Standard Sizes D x L inches (mm)	Maximum Sizes D_{max} x L_{max} (with insulation) inches (mm)	Lead Diameter inches (mm)	Lead Spacing (a) inches (mm)
A	0.197 x 0.433 (5.0 x 11.0)	0.217 x 0.472 (5.5 x 12.0)	0.079 (2.0)	0.020 (0.5)
B	0.248 x 0.433 (6.3 x 11.0)	0.268 x 0.472 (6.8 x 12.0)	0.098 (2.5)	0.020 (0.5)
C	0.315 x 0.492 (8.0 x 12.5)	0.335 x 0.531 (8.5 x 13.5)	0.138 (3.5)	0.020 (0.5)
D	0.394 x 0.492 (10.0 x 12.5)	0.413 x 0.531 (10.5 x 13.5)	0.197 (5.0)	0.024 (0.6)
E	0.394 x 0.787 (10.0 x 20.0)	0.413 x 0.827 (10.5 x 21.0)	0.197 (5.0)	0.024 (0.6)
F	0.492 x 0.984 (12.5 x 25.0)	0.512 x 1.024 (13.0 x 26.0)	0.197 (5.0)	0.024 (0.6)
G	0.630 x 0.984 (16.0 x 25.0)	0.650 x 1.024 (16.5 x 26.0)	0.295 (7.5)	0.031 (0.8)
H	0.630 x 1.240 (16.0 x 31.5)	0.650 x 1.280 (16.5 x 32.5)	0.295 (7.5)	0.031 (0.8)
I	0.709 x 1.240 (18.0 x 31.5)	0.728 x 1.280 (18.5 x 32.5)	0.295 (7.5)	0.031 (0.8)
J	0.709 x 1.378 (18.0 x 35.0)	0.728 x 1.417 (18.5 x 36.0)	0.295 (7.5)	0.031 (0.8)