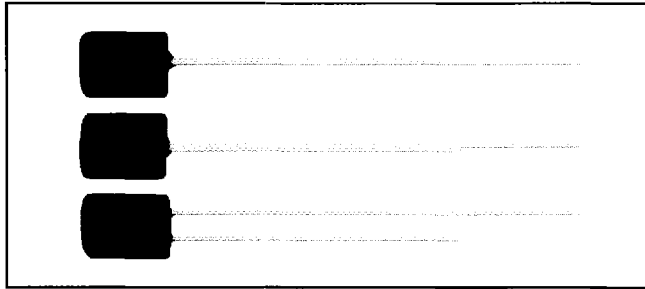


OS-CON® TYPE 94SL Solid Aluminum Capacitors With Organic Semiconductor Electrolyte

A COMPANY OF
VISHAY



FEATURES

- Super miniaturized
- Capacitors operate at + 105°C
- Ideal for use in VCR's, car stereos and other products where a compact design is important

STANDARD RATINGS

CASE CODE	PART* NUMBER	RATED VOLTAGE (V)	NOMINAL CAPACITANCE (μF)	MAX. DF (%)	MAX. LEAKAGE CURRENT (μA)	MAX. ESR 100kHz - 300kHz (Ω)
A'	94SL104X0025A__	25.0	0.1	0.05	0.50	0.950
	94SL154X0025A__	25.0	0.15	0.05	0.50	0.800
	94SL224X0025A__	25.0	0.22	0.05	0.50	0.550
	94SL334X0025A__	25.0	0.33	0.05	0.50	0.550
	94SL474X0025A__	25.0	0.47	0.05	0.50	0.550
	94SL684X0025A__	25.0	0.68	0.05	0.50	0.550
	94SL105X0025A__	25.0	1.0	0.05	0.50	0.450
	94SL155X0025A__	25.0	1.5	0.05	0.75	0.400
	94SL225X0016A__	16.0	2.2	0.05	0.70	0.400
	94SL335X0016A__	16.0	3.3	0.06	1.06	0.400
	94SL475X0010A__	10.0	4.7	0.06	0.94	0.400
	94SL685X06R3A__	6.3	6.8	0.06	0.86	0.400
B'	94SL225X0025B__	25.0	2.2	0.05	1.10	0.350
	94SL335X0025B__	25.0	3.3	0.05	1.65	0.300
	94SL475X0016B__	16.0	4.7	0.05	1.50	0.300
	94SL685X0016B__	16.0	6.8	0.05	2.18	0.250
	94SL685X0010B__	10.0	6.8	0.05	1.36	0.250
	94SL106X0010B__	10.0	10.0	0.05	2.00	0.250
	94SL106X06R3B__	6.3	10.0	0.05	1.26	0.250
	94SL156X06R3B__	6.3	15.0	0.06	1.89	0.250
C'	94SL475X0025C__	25.0	4.7	0.06	2.35	0.150
	94SL685X0025C__	25.0	6.8	0.06	3.40	0.150
	94SL106X0016C__	16.0	10.0	0.06	3.20	0.150
	94SL156X0016C__	16.0	15.0	0.06	4.80	0.150
	94SL156X0010C__	10.0	15.0	0.06	3.00	0.150
	94SL226X0010C__	10.0	22.0	0.06	4.40	0.150
	94SL336X0010C__	10.0	33.0	0.06	6.60	0.150
	94SL226X06R3C__	6.3	22.0	0.06	2.77	0.150
	94SL336X06R3C__	6.3	33.0	0.06	4.15	0.150
94SL476X06R3C__	6.3	47.0	0.06	5.92	0.150	

* Part Numbers shown are for ± 20% capacitance tolerance. For ± 10%, change X0 to X9.

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DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]				
	CASE CODE	Ø D x L	F	Ø d
	A'	.157 x .197 [4.0 x 5.0]	.059 [1.5]	.018 [0.45]
	B'	.197 x .197 [5.0 x 5.0]	.079 [2.0]	.018 [0.45]
	C'	.248 x .197 [6.3 x 5.0]	.098 [2.5]	.018 [0.45]

ENVIRONMENTAL PERFORMANCE	
ITEMS	CHARACTERISTICS
1. Operating Temperature Range	- 55°C to + 105°C
2. Capacitance Tolerance @ 120Hz	X9 = ± 10%. X0 = ± 20%.
3. Maximum Dissipation Factor @ 120Hz (%)	Values in Standard Ratings table
4. Leakage Current (µA/2 minutes) (Maximum)	Values in Standard Ratings table
5. Maximum Equivalent Series Resistance (Ω) (100kHz, from - 25°C to + 35°C)	Values in Standard Ratings table
6. Temperature Characteristics Maximum Impedance Change at 100kHz	- 55°C + 25% Max.
	+ 105°C - 25% Max.
7. Life Test + 105°C, 2,000 hours (Ø D ≥ 8, 1,000 hours) Rated Voltage Applied (25WV - 20V applied)	Δc/c Within ± 20% of the initial value
	DF ≤ 1.5 times the initial requirement
	DCL Shall meet the original requirement
8. Moisture Resistance (+ 60°C, 90 - 95% RH, 1,000 hours, no voltage)	Δc/c Within ± 20% of the initial value
	DF ≤ 2 times the value of Item 3
	DCL ≤ The value of Item 4
9. Reverse Voltage Guarantee	20% of the rated voltage

ALLOWABLE RIPPLE CURRENT				
CASE CODE	PART* NUMBER	≤ + 45°C	+ 85°C	+ 105°C
		100kHz	100kHz	100kHz
A'	94SL104X0025A__	0.285	0.200	0.071
	94SL154X0025A__	0.310	0.217	0.078
	94SL224X0025A__	0.335	0.235	0.084
	94SL334X0025A__	0.335	0.249	0.089
	94SL474X0025A__	0.385	0.270	0.096
	94SL684X0025A__	0.420	0.294	0.105
	94SL105X0025A__	0.430	0.301	0.108
	94SL155X0025A__	0.435	0.305	0.109
	94SL225X0016A__	0.450	0.315	0.113
	94SL335X0016A__	0.500	0.350	0.125
	94SL475X0010A__	0.540	0.378	0.135
	94SL685X06R3A__	0.560	0.392	0.140

* Part Numbers shown are for ± 20% capacitance tolerance. For ± 10%, change X0 to X9.

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ALLOWABLE RIPPLE CURRENT				
CASE CODE	PART* NUMBER	≤ + 45°C	+ 85°C	+ 105°C
		100kHz	100kHz	100kHz
B'	94SL225X0025B_ _	0.695	0.487	0.174
	94SL335X0025B_ _	0.700	0.490	0.175
	94SL475X0016B_ _	0.720	0.504	0.180
	94SL685X0016B_ _	0.745	0.522	0.186
	94SL685X0010B_ _	0.745	0.522	0.186
	94SL106X0010B_ _	0.780	0.546	0.195
	94SL106X06R3B_ _	0.780	0.546	0.195
	94SL156X06R3B_ _	0.815	0.571	0.204
C'	94SL475X0025C_ _	1.130	0.791	0.283
	94SL685X0025C_ _	1.140	0.798	0.285
	94SL106X0016C_ _	1.150	0.805	0.288
	94SL156X0016C_ _	1.230	0.861	0.308
	94SL156X0010C_ _	1.230	0.861	0.308
	94SL226X0010C_ _	1.270	0.889	0.318
	94SL336X0010C_ _	1.350	0.945	0.338
	94SL226X06R3C_ _	1.270	0.889	0.318
	94SL336X06R3C_ _	1.320	0.924	0.330
	94SL476X06R3C_ _	1.430	1.001	0.357

* Part Numbers shown are for ± 20% capacitance tolerance. For ± 10%, change X0 to X9.

CASE CODE LIST				
CAPACITANCE (µF)	6.3 WVDC	10 WVDC	16 WVDC	25 WVDC
0.1	—	—	—	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'	B'
3.3	—	—	A'	B'
4.7	—	A'	B'	C'
6.8	A'	B'	B'	C'
10.0	B'	B'	C'	—
15.0	B'	C'	C'	—
22.0	C'	C'	—	—
33.0	C'	C'	—	—
47.0	C'	—	—	—

TEMPERATURE COEFFICIENT FOR RIPPLE CURRENT				
Ambient Temperature	~ + 45°C	+ 85°C	+ 95°C	+ 105°C
Coefficient	4.0	2.8	1.6	1.0

PART MARKING**
— Polarity ⊖
— Rated voltage
— Capacitance
— OS-CON®
— Lot number
— Maximum operating temperature (+ 105°C)

** Sleeve color: Blue. Marking: White.