

Electric Double Layer Capacitor
EDLC
VSCS SERIES

Part number

VSCS 005R4 305 ■■■■

>>> Internal Code

Special code	S : Standard U : Unique, etc
Terminal type	S : Snap in C : Screw L : Lead W : Welding, etc.
Terminal number	2 or 4 PIN
Internal code	A, B, C given in case of make-to-order

>>> Nominal Capacitance

Capacitance	Symbol	Capacitance	Symbol
3F	305	50F	506
5F	505	100F	107
10F	106	120F	127
25F	256	350F	357

>>> Rated Voltage

Rated Voltage	5.4V	12.5V	100V
Symbol	005R4	012R5	100R0

>>> Serial Name

V	Simplified form of Vitzro
S	S : Standard H : High temp. P : High power L : Leakage intension
C	C : Cylindrical P : Prismatic H : Pouch N : Coin etc.
S	Cell(S) or Module(M)

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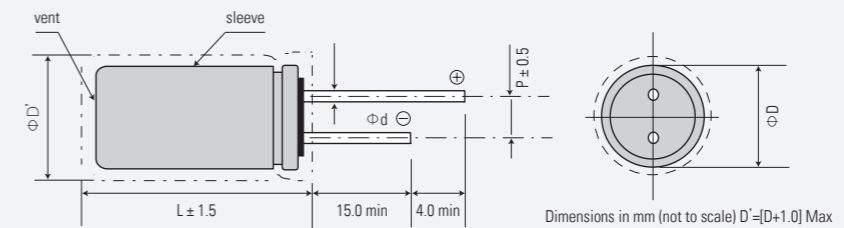


>>> Features

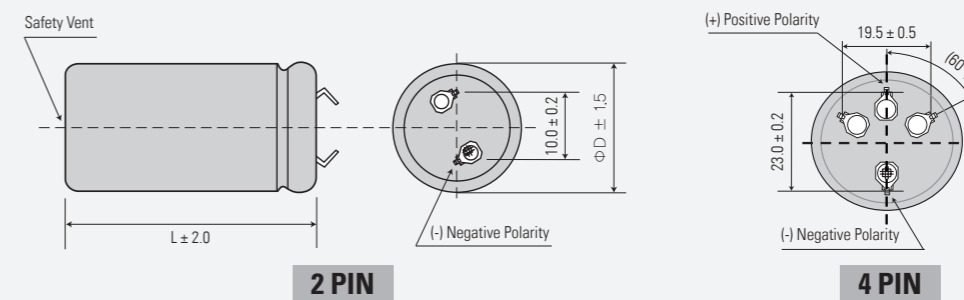
- Cylindrical Cell
- Radial Lead / Lug Terminals
- Very low ESR(High-power density)
- High-capacitance
- RoHS Compliant

D	P	d
8	4	0.6
10	5.5	0.6
16.18	8.0	0.8

>>> Lead Type



>>> Lug Type



>>> Standard Products

Item		Performance	
Rated Voltage(V _R)		2.5 volts	2.7 volts
Nominal Capacitance Range		3 to 350 F	3 to 350 F
Capacitance Tolerance		-20 % to +30% (at 25°C)	-20 % to +30% (at 25°C)
Operating Temperature Range		-25°C to 70°C	-40°C to 60°C
Endurance		After 1,000 hours at rated voltage loaded under +60°C, +70°C the capacitor shall meet the specified endurance limits :	
		Capacitance change ≤ 30% of initial value	
		Internal resistance ≤ 2 times of specified value	
Temperature characteristics	Measure at	At -25, +25, 70°C	At -40, +25, 60°C
	ΔC	≤ 30% of initial value	
	Internal resistance	≤ 2 times of specified value	
Cycle Life Characteristics	500,000 cycles	Capacitance Change ≤ 30% of initial value	
		Internal resistance ≤ 2 times of specified value	
Shelf life		After 1,000 hours storage at +60°C(2.7 V), +70°C(2.5V) without load, the capacitor shall meet the specified endurance limits of endurance.	

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>>> Lead Terminal

Part number	Rated Voltage (V)	Capacitance (F)	Internal resistance (mΩ)		Leakage current (mA, 72hr)	Size (mm) D × L	Energy density (Wh/kg)
			AC(1kHz)	DC			
VSCS 002R5 305	2.5	3	≤ 150	≤ 215	0.008	08 × 20	1.7
VSCS 002R5 505		5	≤ 125	≤ 190	0.012	10 × 20	1.7
VSCS 002R5 705		7	≤ 80	≤ 120	0.020	10 × 20	2.3
VSCS 002R5 106(U)		10	≤ 70	≤ 100	0.030	10 × 25	2.5
VSCS 002R5 106		10	≤ 70	≤ 100	0.030	10 × 30	2.5
VSCS 002R5 156		15	≤ 60	≤ 90	0.035	13 × 25	3.2
VSCS 002R5 256		25	≤ 40	≤ 60	0.065	16 × 25	2.4
VSCS 002R5 606		60	≤ 25	≤ 35	0.120	18 × 40	3.3
VSCS 002R7 305	2.7	3	≤ 60	≤ 70	0.008	08 × 20	2.0
VSCS 002R7 505		5	≤ 40	≤ 50	0.012	10 × 20	2.2
VSCS 002R7 705		7	≤ 35	≤ 45	0.020	10 × 20	2.5
VSCS 002R7 106(U)		10	≤ 30	≤ 35	0.030	10 × 25	3.2
VSCS 002R7 106		10	≤ 25	≤ 30	0.030	10 × 30	3.2
VSCS 002R7 156		15	≤ 30	≤ 33	0.060	13 × 25	3.2
VSCS 002R7 256		25	≤ 20	≤ 25	0.068	16 × 25	3.8
VSCS 002R7 506		50	≤ 15	≤ 20	0.105	18 × 40	4.5

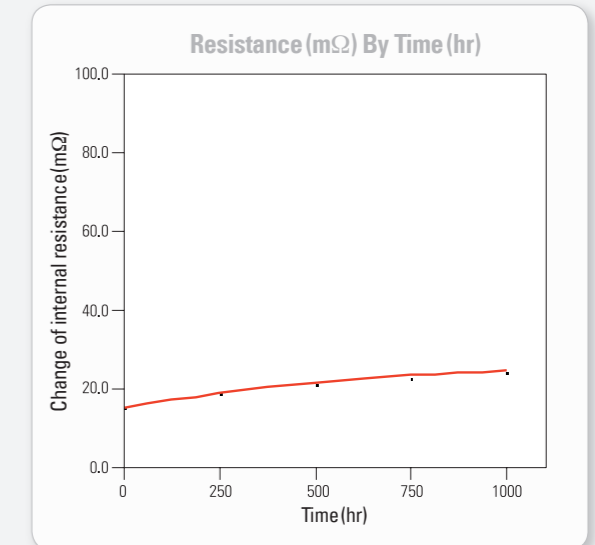
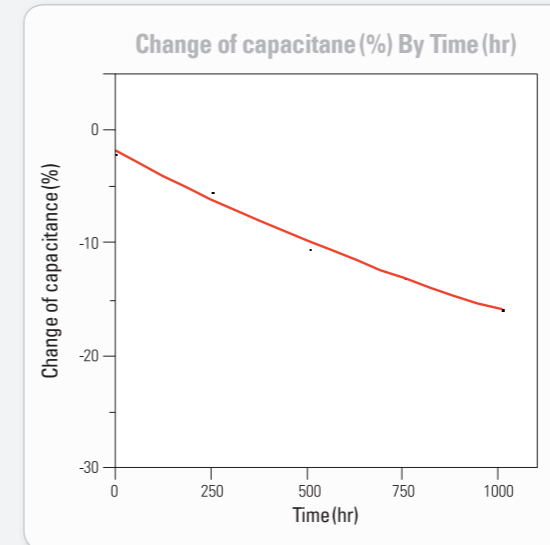
>>> Lug Terminal

Part number	Rated Voltage (V)	Capacitance (F)	Internal resistance (mΩ)		Leakage current (mA, 72hr)	Size (mm) D × L	Energy density (Wh/kg)	PIN
			AC(1kHz)	DC				
VSCS 002R5 127	2.5	120	≤ 18	≤ 25	0.250	22 × 45	3.8	2
VSCS 002R5 357		350	≤ 6	≤ 10	0.950	35 × 60	4.3	2, 4
VSCS 002R7 107	2.7	100	≤ 9	≤ 12	0.550	25 × 45	4.8	2
VSCS 002R7 357		350	≤ 3.2	≤ 3.5	1.500	35 × 60	5.4	2, 4

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Performance Data

>>> Endurance(2.7V, 60°C) : 10 × 25 mm (10F)



>>> Temperature characteristic

