



CLI Series

• 125°C 2,000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Wide Temp., Low ESR.
- Suitable to fit for automotive equipment.
- RoHS compliant.
- Halogen-free capacitors are also available.

CLS

CLI

Downsized



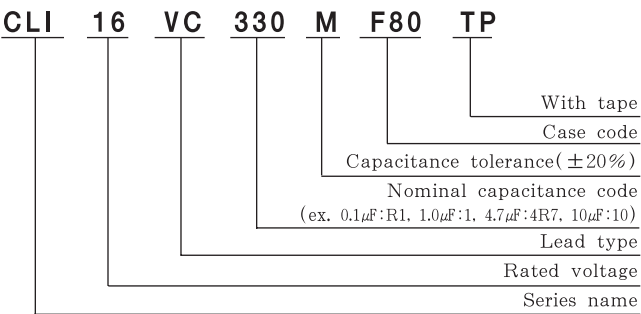
• AEC-Q200 compliant : Please contact us for more details, test data, information.

SPECIFICATIONS

Item	Characteristics																			
Rated Voltage Range	16 ~ 50 V _{DC}																			
Operating Temperature Range	-40 ~ +125 °C																			
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)																			
Leakage Current	I=0.01CV(μA) or 3μA, whichever is greater. Where, I:Max. Leakage current(μA) C:Nominal capacitance(μF) V:Rated voltage(V _{DC}) (at 20°C, 2 minutes)																			
Dissipation Factor(Tanδ)	<table><tr><td>Rated voltage(V_{DC})</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Tanδ(Max.)</td><td>0.23</td><td>0.18</td><td>0.16</td><td>0.16</td></tr></table> (at 20°C, 120Hz)					Rated voltage(V _{DC})	16	25	35	50	Tanδ(Max.)	0.23	0.18	0.16	0.16					
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Temperature Characteristics (Max. Impedance ratio)	<table><tr><td>Rated voltage(V_{DC})</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-25°C)/Z(+20°C)</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40°C)/Z(+20°C)</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (at 120Hz)					Rated voltage(V _{DC})	16	25	35	50	Z(-25°C)/Z(+20°C)	2	2	2	2	Z(-40°C)/Z(+20°C)	3	3	3	3
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Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 125°C. Capacitance change ≤ ±30% of the initial value Tan δ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value																			
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±30% of the initial value Tan δ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value																			
Others	Satisfied characteristics KS C IEC 60384-4																			

CLI Series

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF)	Freq.(Hz)	120	1K	10K	100K
100 ~ 150		0.40	0.75	0.90	1.00
220 ~ 330		0.50	0.85	0.94	1.00

DIMENSIONS OF CLI Series

Unit(mm)

DIMENSIONS

● Vibration Resistance

<Size code:F80> <Size code:F80>

①: Dummy terminals

Recommended solder land on PC board

■: Solder land on PC board

MARKING

Case code	φD	L	A	B	C	W	P	a	b	c	a	b	c
F80	6.3	7.7	6.6	6.6	7.2	0.5~0.8	1.9	1.9	3.5	1.6	1.9	3.5	3.3

● Vibration Resistance →

RATINGS OF CLI Series

V _{dc}	Cap.(μF)	Case Code	ESR ($\Omega_{max}/20^{\circ}C, 100kHz$)	Rated Ripple Current (mA _{rms} /125°C, 100kHz)
16	330	F80	0.30	240
25	220	F80	0.30	240
35	150	F80	0.30	240
50	100	F80	0.50	190