

CapXon SK Series

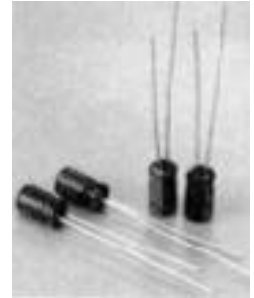
SK Series 7 mm 105

Features

Design for space-saving and high density insertion.

Applications: VTR, car radio, car stereos. charger, etc.

For detail specifications, please refer to Engineering Bulletin No. E115



Specifications

Item	Performance Characteristics																											
Operating Temperature Range	-40 to +105																											
Rate Voltage Range	4 to 63 VDC																											
Capacitance Range	0.1 to 470 μ F																											
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20)																											
Leakage Current(+20 , max)	1 0.01 CV or 3 (μ A) After 1 minute, whichever is greater measured with rate working voltage applied.																											
Dissipation Factor(tan)	<table border="1"> <thead> <tr> <th>Working Voltage (VDC)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>D.F. (%)max</td> <td>35</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>9</td> </tr> </tbody> </table> (+20 ,at 120Hz)	Working Voltage (VDC)	4	6.3	10	16	25	35	50	63	D.F. (%)max	35	24	20	16	14	12	10	9									
Working Voltage (VDC)	4	6.3	10	16	25	35	50	63																				
D.F. (%)max	35	24	20	16	14	12	10	9																				
Low Temperature Characteristics (120Hz)	Impedance ratio max. <table border="1"> <thead> <tr> <th>Working Voltage (VDC)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>Z-25 / Z+20</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40 / Z+20</td> <td>15</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Working Voltage (VDC)	4	6.3	10	16	25	35	50	63	Z-25 / Z+20	7	4	3	2	2	2	2	2	Z-40 / Z+20	15	8	6	4	4	3	3	3
Working Voltage (VDC)	4	6.3	10	16	25	35	50	63																				
Z-25 / Z+20	7	4	3	2	2	2	2	2																				
Z-40 / Z+20	15	8	6	4	4	3	3	3																				
Load Life	Test conditions Duration time :1000 Hrs Ambient temperature :+105 Applied voltage :Rated DC working voltage After test requirements at +20 Capacitance change : $\pm 20\%$ of the initial measured value (4V : $\pm 30\%$) Dissipation factor : 200% of the initial specified value Leakage current : The initial specified value																											
Shelf Life	Test conditions Duration time :1000 Hrs Ambient temperature :+105 Applied voltage :None After test requirements at +20 : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																											

Multiplier for Ripple Current vs. Frequency

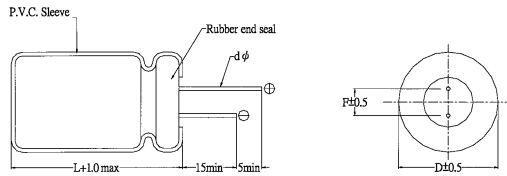
CAP(μ F) \ Hz		50(60)	120	400	1K	10K	50K-100K
Multiplier	CAP 10	0.8	1	1.30	1.45	1.65	1.70
	10 < CAP 100	0.8	1	1.23	1.36	1.36	1.53
	100 < CAP 1000	0.8	1	1.16	1.25	1.25	1.38

Multiplier for Ripple Current vs. Temperature

Temperature	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.4	1.00

CapXon SK Series

Diagram of Dimension: (unit:mm)



D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45		0.5	

Case Size

WV(SV) μF	DxL(mm)							
	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.1							4x7	4x7
0.22							4x7	4x7
0.33							4x7	4x7
0.47							4x7	4x7
1							4x7	4x7
2.2							4x7	4x7
3.3							4x7	5x7
4.7					4x7	4x7	4x7	5x7
10				4x7	4x7	4x7	5x7	6.3x7
22			4x7	4x7	5x7	5x7	6.3x7	-
33			4x7	4x7	5x7	6.3x7	8x7	-
47	4x7	4x7	5x7	5x7	6.3x7	8x7	-	-
100	4x7	5x7	6.3x7	6.3x7	8x7	-	-	-
220	6.3x7	6.3x7	8x7	-	-	-	-	-
330	6.3x7	8x7	-	-	-	-	-	-
470	8x7	-	-	-	-	-	-	-

Maximum Ripple Current

WV(SV) μF	(mA, rms, 120Hz at 105 °C)							
	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.1							3	4
0.22							3	4
0.33							3	4
0.47							5	6
1							10	13
2.2							19	21
3.3							24	26
4.7					15	20	29	33
10				30	30	30	32	35
22			35	37	45	47	50	-
33			40	42	47	52	62	-
47	35	40	47	65	65	70	-	-
100	40	65	90	92	95	-	-	-
220	65	120	125	-	-	-	-	-
330	120	150	-	-	-	-	-	-
470	150	-	-	-	-	-	-	-