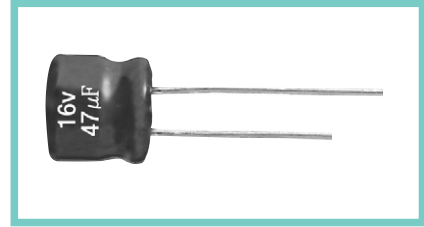


KRE(ESA) Series

• 105°C 1,000Hrs assured.

- Height 5mm.
- Wide Temperature range.
- For CAR-Audio, Tuner
- RoHS compliant.

Solvent-proof



Wide temp.

SPECIFICATIONS

Item	Characteristics																		
Rated Voltage Range	4 ~ 50 V _{DC}																		
Operating Temperature Range	-55 ~ +105°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 border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tanδ(Max.)</td> <td>0.30</td> <td>0.27</td> <td>0.23</td> <td>0.19</td> <td>0.15</td> <td>0.13</td> <td>0.11</td> </tr> </table> <p>※ For ø3×5L KRE, 0.02 shall be added to the above value. (at 20°C, 120Hz)</p>	Rated Voltage(V _{DC})	4	6.3	10	16	25	35	50	Tanδ(Max.)	0.30	0.27	0.23	0.19	0.15	0.13	0.11		
Rated Voltage(V _{DC})	4	6.3	10	16	25	35	50												
Tanδ(Max.)	0.30	0.27	0.23	0.19	0.15	0.13	0.11												
Temperature Characteristics (Max.Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25~50</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>6</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>9</td> <td>7</td> <td>5</td> <td>3</td> </tr> </table> <p>(at 120Hz)</p>	Rated Voltage(V _{DC})	4	6.3	10	16	25~50	Z(-25°C)/Z(20°C)	6	3	3	2	2	Z(-40°C)/Z(20°C)	12	9	7	5	3
Rated Voltage(V _{DC})	4	6.3	10	16	25~50														
Z(-25°C)/Z(20°C)	6	3	3	2	2														
Z(-40°C)/Z(20°C)	12	9	7	5	3														
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 105°C. Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% 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 500 hours at 105°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 measurement. Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value																		
Others	Satisfied characteristics W of KS C 6421																		

RATINGS OF KRE Series

V _{DC} μF	4(0G)	6.3(0J)	10(1A)	16(1C)	25(1E)	35(1V)	50(1H)
0.1							3×5 1.3
0.15							3×5 2.0
0.22							3×5 2.6
0.33							3×5 3.2
0.47							3×5 3.8
0.68							3×5 4.6
1							3×5 5.6
1.5							3×5 6.9
2.2						3×5 7.7	3.5×5 10
3.3					3×5 8.8	3.5×5 11	4×5 14
4.7				3×5 9.4	3.5×5 12	4×5 15	5×5 19
6.8			3×5 11	3.5×5 13	4×5 16	5×5 20	6.3×5 24
10		3×5 12	3.5×5 14	3.5×5 16	5×5 23	5×5 25	6.3×5 29
15	3.5×5 15	3.5×5 16	4×5 20	5×5 25	6.3×5 30	6.3×5 33	
22	4×5 21	4×5 21	5×5 27	5×5 30	6.3×5 37	6.3×5 40	
33	4×5 29	5×5 30	5×5 34	6.3×5 40	6.3×5 45		
47	4×5 36	5×5 36	6.3×5 43	6.3×5 48			
68	5×5 45	6.3×5 46	6.3×5 52				
100	5×5 55	6.3×5 56					

Rated Ripple Current (mA rms/105°C, 120Hz)
Case Size øD×L(mm)

DIMENSIONS OF KRE Series

Unit (mm)

Marking: BROWN SLEEVE, WHITE INK

ø D	3	3.5	4	5	6.3
ø d	0.4	0.4	0.45	0.45	0.45
F	1.0	1.0	1.5	2.0	2.5
ø D'	ø D + 0.5 max.				
L'	L + 1.0 max.				