

KRE Series

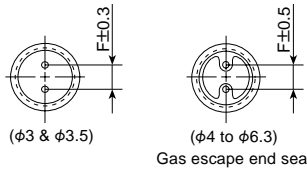
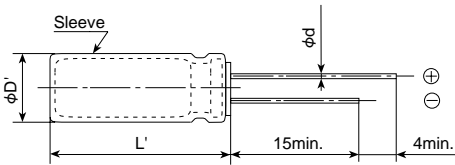
- Coating case covered products are also available
- 5mm height, 1000-hours-life at 105°C
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)



◆ SPECIFICATIONS

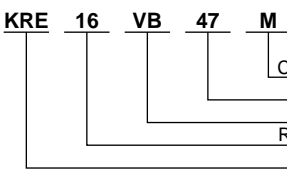
Items	Characteristics	
Category	-55 to +105°C	
Temperature Range	-55 to +105°C	
Rated Voltage Range	6.3 to 50V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	6.3V 10V 16V 25V 35V 50V
	tanδ (Max.)	0.27 0.23 0.19 0.15 0.13 0.11
	Add 0.02 for φ3 products. (at 20°C, 120Hz)	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V 10V 16V 25V 35V 50V
	Z(-25°C)/Z(+20°C)	3 3 2 2 2 2
	Z(-40°C)/Z(+20°C)	9 7 5 3 3 3 (at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.	
	φD	φ3 & φ3.5 φ4 to φ6.3
	Capacitance change	≤±25% of the initial value ≤±20% of the initial value
	D.F. (tanδ)	≤200% of the initial specified value ≤200% of the initial specified value
	Leakage current	≤The initial specified value ≤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.	
	φD	φ3 & φ3.5 φ4 to φ6.3
	Capacitance change	≤±25% of the initial value ≤±20% of the initial value
	D.F. (tanδ)	≤200% of the initial specified value ≤200% of the initial specified value
	Leakage current	≤The initial specified value ≤The initial specified value

◆ DIMENSIONS (Radial Lead Type=VB) [mm]



φD	3	3.5	4	5	6.3
φd	0.4	0.4	0.45	0.45	0.45
F	1.0	1.0	1.5	2.0	2.5
φD'	φD+0.5max.				
L'	L+1.0max.				

◆ PART NUMBERING SYSTEM



Capacitance	Code
0.1μF	R1
0.47μF	R47
1.0μF	1
4.7μF	4R7
10μF	10
100μF	100

◆ STANDARD RATINGS

μF	V _{dc}	6.3		10		16		25		35		50	
		Case size φD×L (mm)	Rated ripple current (mA _{rms}) at 105°C, 120Hz	Case size φD×L (mm)	Rated ripple current (mA _{rms}) at 105°C, 120Hz	Case size φD×L (mm)	Rated ripple current (mA _{rms}) at 105°C, 120Hz	Case size φD×L (mm)	Rated ripple current (mA _{rms}) at 105°C, 120Hz	Case size φD×L (mm)	Rated ripple current (mA _{rms}) at 105°C, 120Hz	Case size φD×L (mm)	Rated ripple current (mA _{rms}) at 105°C, 120Hz
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
1.0												3×5	5.6
1.5												3×5	6.9
2.2												3×5	10
3.3												3×5	14
4.7												3×5	19
6.8												3×5	24
10		3×5	12	3×5	11	3.5×5	16	3×5	8.8	3.5×5	11	6.3×5	29
15		3.5×5	16	4×5	20	5×5	25	3.5×5	12	4×5	15	6.3×5	33
22		4×5	21	5×5	34	5×5	30	4×5	16	5×5	20	6.3×5	40
33													
47		5×5	36			6.3×5	48						
68				6.3×5	52								
100		6.3×5	56										

Note1: → Use next higher voltage part.
Note2: The parts of φ3.5×5 will be unified to φ4×5.