



LR SERIES 2000~5000HR

Low Impedance and low ESR 105°C 低阻抗長壽命品

Features

- Low impedance for high frequency.
- Radial type for switching power supply and anti-solvent.

Specifications

Items	Character											
Capacitance Tolerance	±20% (120Hz, 20°C)											
Operating Temperature Range	-55~+105°C				-40~+105°C				-25~+105°C			
Voltage Range	6.3~100V				160~400V				450V			
Leakage Current	$W \leq 100V \quad I \leq 0.01CV$ (After 2 minutes application of DC working voltage, at 20°C) $WV > 100V \quad I \leq 0.03CV + 20$ (A) (After 5 minutes application of DC working voltage, at 20°C)											
Dissipation Factor ($\tan \delta$)	Measurement Frequency : 120Hz, Temperature : 20°C											
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	400~450	
	\tan (MAX)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07	0.20	0.24	
	Add 0.02 per 1000 F for more than 1000F											
Low Temperature Stability Impedance Ratio	Measurement Frequency : 120Hz,											
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	400	450
	$Z(-25^\circ C)/Z(20^\circ C)$	4	3	2	2	2	2	2	2	3	5	6
	$Z(-40^\circ C)/Z(20^\circ C)$	-	-	-	-	-	-	3	3	6	-	-
	$Z(-55^\circ C)/Z(20^\circ C)$	8	6	4	3	3	3	-	-	-	-	-
Load Life	With application of working voltage at 105 °C, 2000 hrs for 5 to 8 mm, 5000 hrs for $D \geq 10mm$ (all 160V to 450V is 2000hrs)											
	Capacitance Change	Within 20% of Initial Value										
	\tan	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Shelf Life	1000 hrs no voltage applied, at 105 °C											
	Capacitance Change	Within 20% of Initial Value										
	\tan	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Standards	JIS C 5141 and JIS C 5102											

Ripple Current Coefficients

Temperature Multiplies

TEMP (C)	65	75	85	95	105
Coefficient	2.10	1.90	1.70	1.50	1.00

Temperature Multiplies

WV (V)	Caacitance (F)	Frequency (Hz)				
		50	120	1K	10K	100K
6.3~100	47~100	0.45	0.55	0.75	0.90	1.00
	220~1000	0.60	0.70	0.85	0.95	1.00
	2200~15000	0.70	0.80	0.95	0.98	1.00
160~450	1~330	0.55	0.65	0.80	0.90	1.00

Diagram of Dimensions

Unit (mm)

D	5	6.3	8	10	13	15	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.5	0.5	0.5	0.8	0.8

