



THT, Radial E-Cap., Extremely low Impedance at high Frequency High Reliability, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag

Items			Performance Characteristics									
Operating temperature range		-40°C +105°C (6,3V~100V / -40°C ~+105°C (160V-250V ; -25~ +105°C (350~500V)										
Leakage current max.		WV≤100							WV≥100			
		I = 0,01CV or 3μA whichever is greater (after 2 minutes)							I = 0,02CV + 15μA (after 5 minutes)			
Capacitance tolerance		±20% at 120Hz, 20°C										
Dissipation factor max. (at 120Hz, 20°C)		Capacitance > 1000μF ; tanQ increases by 0,02 for each 1000μF from below value.										
		WV	6,3	10	16	25	35	50	63	100	160~250	350~500
		TanQ	0,22	0,19	0,16	0,14	0,12	0,10	0,09	0,08	0,15	0,20
Low temperature characteristics (Impedance ratio at 120Jz)	WV	6,3	10	16	25	35	50	160	160~250	350~500		
	Z-25°C / Z+20°C	4	3	2	2	2	2	3	3	8		
	Z-40°C / Z+20°C	8	6	4	3	3	3	4	4	-		
Load life (after application of the rated voltage for 2000hrs at 105°C)		Leakage Current						Less than specified Value				
		Capacitance Change						Within ±20% of initial value				
		TanQ						Less than 200% of specified value				
Shelf life (at 105°C)		After 1000 hours no load test, leakage current, capacitance and tanQ are same as load life value.										

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF/Frequency	120Hz	1kHz	10kHz	100kHz≤
~33	0,40	0,65	0,82	1,00
47~220	0,50	0,70	0,84	1,00
330~680	0,55	0,75	0,86	1,00
820~1500	0,60	0,80	0,88	1,00
2200~15000	0,70	0,85	0,90	1,00

Technical Details

Range (μF)	1	ØD(mm)	5,0
Voltage	50	L(mm)	11,0
Impedance (Ω)	3,5	F(mm)	2,0
Ripple Current (mA)	40	Ød(mm)	0,5
ESR (Ω) max.at 20°C 10KHz	-.-	α(mm)	1,5
Lifetime (hrs)	2000	-.-	-.-
Operating- Temperature Range (°C)	-40°C ~ +105°C	-.-	-.-



ØD	5	6,3	8	10	12,5	16	18
F	2,0	2,5	3,5	5,0	5,0	7,5	7,5
Ød	0,5			0,6		0,8	
α	1,5			2,0			

DRW:	Lexua	CHKD	Wilson	MATL:	ChuChu	DATE	28.01.2025
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Ordering Informations:

Serie-No. / Voltage / Range / Size	Capacity Tolerance	ROHS	Packing
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I14111-5001R00511	M	R	BU
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Serie	Voltage (V)	Range μ H)	D * L (mm)	Tolerance Order Code	R= ROHS	BU= Bulk-Ware Long Lead
					N= NON ROHS	T/B= Tape/Box
						L3= Lead-Length 3~3,5mm

Soldering Information

Lead Solder Performance



Lead free Solder Performance



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