



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)	47	ØD(mm)	18,0
Voltage	500	L(mm)	35,5
Impedance (Ω)	1,5	F(mm)	10,0
Ripple Current (mA)	700	Ød(mm)	0,8
ESR (Ω) max.at 20°C 10KHz	~.	α(mm)	3
Lifetime (hrs)	2000	~.	~.
Operating- Temperature Range (°C)	..-25°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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I14111-5014701836	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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