



THT, Radial E-Cap., Extremely low Impedance, High Reliability, Enabled high ripple current by a reduction of impedance at high Frequency, Ideally suited for use in switching power supply main board, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag

Items		Performance Characteristics										
Operating temperature range		-40°C +105°C										
Leakage current max.												
		I = 0,01CV or 3µA whichever is greater (after 2 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				
		TanQ	0,22	0,19	0,16	0,14	0,12	0,10				
Low temperature characteristics (Impedance ratio at 120Jz)	WV	6,3	10	16	25	35	50					
	Z-40°C / Z+20°C	8	6	4	4	3	3					
Load life (after application of the rated voltage for 10000hrs 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.										
Ø5. Ø6,3 : 4000Hours, Ø8: 6000Hours, Ø10:7000hours												

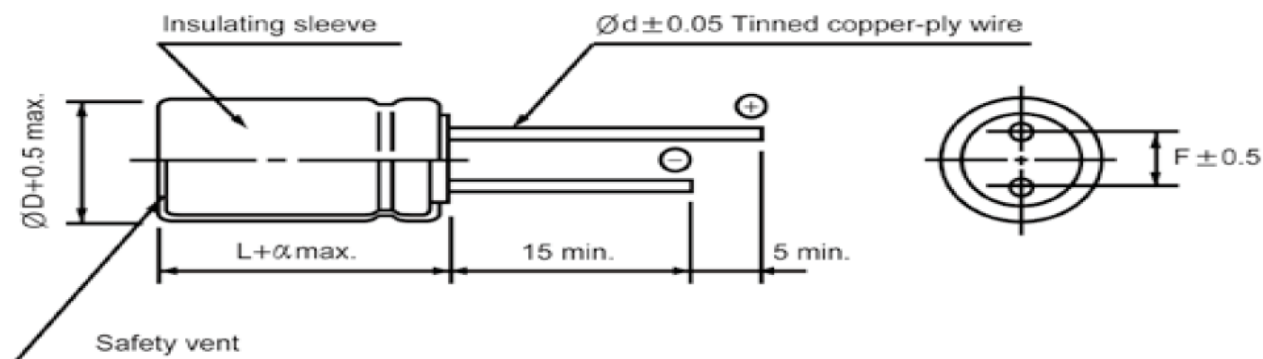
Ø5, Ø6,3 : 4000Hours, Ø8: 6000Hours, Ø10:7000hours

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)	4000	-.-	-.-
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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114110-5001R00511	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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