



THT, Radial E-Cap., Ultra Low Impedance Enabled high ripple current by a reduction of impedance at high frequency. high reliability withstanding to 5000hrs load life at 105°C, 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 + 3µA whichever is greater (after 2 minutes)										
	I = 0,03CV + 4µA whichever is greater (after 1 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	
	TanQ		0,22	0,19	0,16	0,14	0,12	0,10	0,09	0,08	
Low temperature characteristics (Impedance ratio at 120Jz)	Z-40°C / Z+20°C							Z-25°C / Z+20°C			
	3							2			
Load life (after application of the rated voltage for 5000hrs at 105°C)	Leakage Current							Less than specified Value			
	Capacitance Change							Within ±25% off initial Value			
	TanQ							Less than 200% of specified value			
	ø5 , ø6,3 : 2000hours; ø8: 3000hours : ø10 : 5000hours										
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	50kHz	100kHz≤	
~33		0,42	0,70	0,90	0,95	1,00	
47~270		0,50	0,73	0,92	0,96	1,00	
330~680		0,55	0,77	0,94	0,97	1,00	
1000~1500		0,60	0,80	0,96	0,98	1,00	
2000~		0,70	0,85	0,98	0,99	1,00	

Technical Details

Range (μF)	220	ØD(mm)	10,0
Voltage	50	L(mm)	20,0
Impedance (Ω)	0,038	F(mm)	5,0
Ripple Current (mA)	1430	Ød(mm)	0,6
ESR (Ω) max.at 20°C 10KHz	-.-	α(mm)	2
Lifetime (hrs)	5000	-.-	-.-
Operating- Temperature Range (°C)	-40°C ~ +105°C	-.-	-.-



ØD	5	6,3	8	10	12,5	16	18	22
F	2	2,5	3,5	5,0	5,0	7,5	7,5	10,0
Ød	0,5			0,6		0,8		
α	1,5			2,0				3,0

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Ordering Informations:

Serie-No. / Voltage / Range / Size	Capacity Tolerance	ROHS	Packing
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114057-5002211020	M	R	BU
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Serie	Voltage (V)	Range μ H)	D * L (mm)	Tolerance Order Code	R= ROHS N= NON ROHS	BU= Bulk-Ware Long Lead T/B= Tape/Box L3= Lead-Length 3~3,5mm
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Soldering Information

Lead Solder Performance



Lead free Solder Performance



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