



THT, Radial E-Cap., High Ripple current, Extremely Low Impedance at high frequency, High reliability withstanding to 10000 hours 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 = 0,03CV + 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	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)				6,3	10	16	25~100							
		Z-25°C / Z+20°C												
		Z-40°C / Z+20°C		8	6	4	3							
Load life (after application of the rated voltage for 10000hrs 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: 5000 hours, ø8, ø10: 7000 hours; ø12,5, ø16 , ø18: 10000 hours												
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)	2,2	ØD(mm)	5,0
Voltage	50	L(mm)	11,0
Impedance (Ω)	2,5	F(mm)	2,0
Ripple Current (mA)	55	Ød(mm)	0,5
ESR (Ω) max.at 20°C 10KHz	-.-	α(mm)	1,5
Lifetime (hrs)	5000	-.-	-.-
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			

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Ordering Informations:

Serie-No. / Voltage / Range / Size	Capacity Tolerance	ROHS	Packing
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114076-5002R20511	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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