

SPECIFICATION FOR APPROVAL

CUSTOMER _____

PART NAME Aluminum Electrolytic Capacitor - Radial

SPEC TS13DE CD110X 33uF 63V +/-20% 6.3x11mm Bulk RoHS*

PART NO _____

DATE 2023-1-9

CUSTOMER APPROVE

CUSTOMER APPROVE		

DRAWING

PREPARED

CHECKED

APPROVED

DRAWING		
PREPARED	CHECKED	APPROVED

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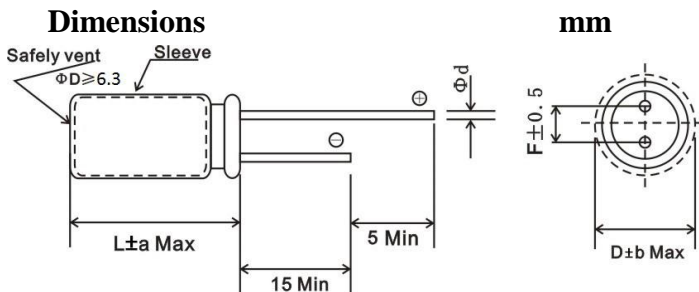
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STANDARD RATINGS

capacitance	Voltage	tolerance	dimension	Ripple Current: 85°C @ 120Hz	2000H at 85C
(μ F)	(V)	(%)	(mm)	(mArms)	
33	63	+/-20%	6.3*11	138	

Specifications:

Items	Performance Characteristics	
Operating Temperature Range(°C)	-40~+85	
Capacitance Tolerance (25°C, 120Hz)	±20%	
Leakage Current(μ A)	Rated Voltage(V)	63
		0.03cv or 4 whichever is greater(at 25°C, after 1 minutes) 0.01cv or 3 whichever is greater(at 25°C, after 2 minutes)
Dissipation Factor (25°C, 120Hz)	Rated Voltage	63
	Tan δ	0.1
0.02 is added to every 1000 μ F increase over		
Temperature Stability (120Hz)	Rated Voltage(V)	63
	Impedance	Z-25°C/Z+20°C : 2 Z-40°C/Z+20°C : 3
Load Life (+85°C)	Time	2000 hours
	Leakage current	Not more than the specified value.
	Capacitance Change	Within±20% of initial value
	Dissipation factor	Not more than 200% of the specified value.
Shelf Life (+85°C)	1000hours. No voltage applied. After test: U _R to be applied for 30 minutes, 24 to 48 hours before measurement.	



ØD	Ød	F	a	b
6.3	0.5	2.5	+1.5-1.0	0.5

Multiplier for ripple current

Frequency coefficient

Rated Voltage(V)	Freq(Hz)	CV(μ F · WV)				
		50, (60)	120	1K	10K	100K
63	≤1000	0.80	1	1.6	1.9	1.9

Temperature coefficient

Temperature (°C)	+70	+85
Factor	1.35	1

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