

SPECIFICATION FOR APPROVAL

CUSTOMER _____

PART NAME Metallized Polyester Film Capacitor - Mini Box

SPEC TS05 3.3uF 63V +/-10% 7.5*7.5*13mm P:5mm Bulk RoHS

DATE 2026-3-10

CUSTOMER APPROVE

DRAWING		
PREPARED	CHECKED	APPROVED

Suntan® Technology Company Limited

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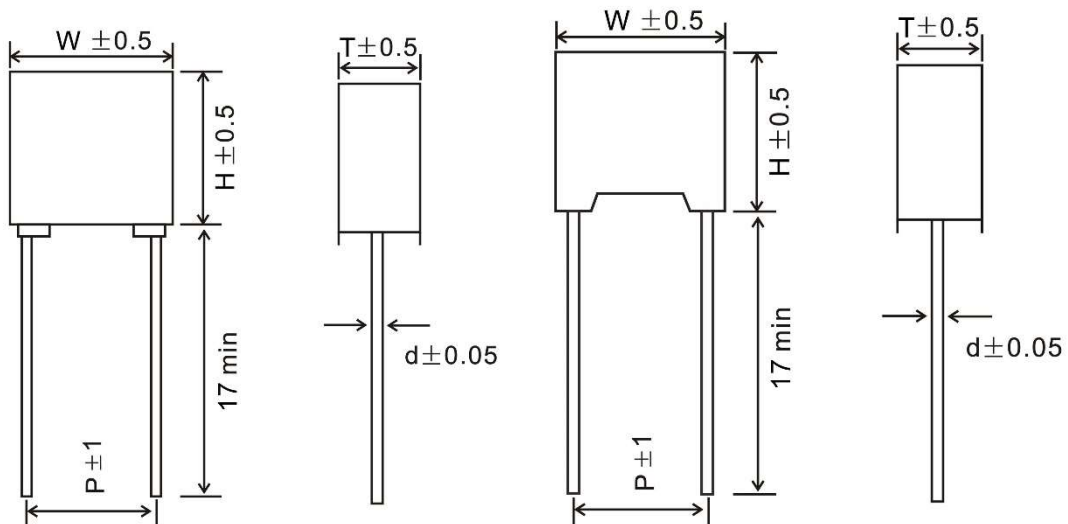
FEATURES

- High reliability
- Low dissipation factor.
- Box type provides the identical outer appearance



SPECIFICATIONS	
Reference Standard	IEC384-2 GB/T7332-96
Climatic Category	40/085/21
Rated Temperature	85°C
Rated Voltage	63V
Capacitance Range	3.3μF
Capacitance Tolerance	±10%(K)
Voltage Proof	1.6U _R (5s)
Tangent of loss angle (tangent):	≤0.8% (20°C, 1KHz)
Insulation Resistance	C≤0.33μF, IR≥3000MΩ ;
	C>0.33μF, IR*C≥1000MΩ*UF (20°C, 1min)

Outline Drawing Dimensions (mm)



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No.	Item	Test Conditions	Requirements						
1	Capacitance tolerance	Frequency: 1KHZ \pm 0.1KHZ, Test voltage: \leq 1Vrms	\pm 5% (J) \pm 10% (K)						
2	Tangent of loss angle (tangent)	Frequency: 1KHZ \pm 0.1KHZ, Test voltage: \leq 1Vrms	\leq 0.8%						
3	Insulation resistance	Test voltage: $U_R \geq 100$ VDC, based on 100VDC, $U_R < 100$ VDC, based on 50VDC Temperature: 20°C \pm 15°C Duration time: 60 \pm 5sec	$C \leq .33$ UF $CR \geq 3000$ M Ω $C \geq .33$ UF $IR * C \geq 1000$ S						
4	Withstand voltage	Between lead wire: Test voltage: 1.6 U_R , duration time: 5sec Between lead wire and shell: Test voltage: 2 U_R , duration time: 5sec	No breakdown or arcing						
5	Rapid changes in temperature	Temperature: $\theta_A = -40^\circ$ C, $\theta_B = +85^\circ$ C Under the high or low temperature exposure time: 30min Conversion time: 2 ~ 3min Number of cycles: 5	No visible damage on surface, $\Delta c/c \leq 5\%$ $tg\delta \leq 1.0\%$						
6	Tensile strength of lead wire	Pull: <table border="1"> <tr> <td>Lead wire diameter (mm)</td> <td>Pull</td> </tr> <tr> <td>0.3<d\leq0.5</td> <td>0.51kg</td> </tr> <tr> <td>0.5<d\leq0.8</td> <td>1.0kg</td> </tr> </table>	Lead wire diameter (mm)	Pull	0.3<d \leq 0.5	0.51kg	0.5<d \leq 0.8	1.0kg	No mechanical damage, such as lead wire fracture, loose
Lead wire diameter (mm)	Pull								
0.3<d \leq 0.5	0.51kg								
0.5<d \leq 0.8	1.0kg								
7	Bending strength of lead wire	(Half of terminal), load: <table border="1"> <tr> <td>Lead wire diameter (mm)</td> <td>Load</td> </tr> <tr> <td>0.3<d\leq0.5</td> <td>0.51Kg</td> </tr> <tr> <td>0.5<d\leq0.8</td> <td>1.0Kg</td> </tr> </table> Positive and negative two directions, should bending twice in a row on each direction, bending angle =90°	Lead wire diameter (mm)	Load	0.3<d \leq 0.5	0.51Kg	0.5<d \leq 0.8	1.0Kg	No mechanical damage, such as lead wire fracture, loose
Lead wire diameter (mm)	Load								
0.3<d \leq 0.5	0.51Kg								
0.5<d \leq 0.8	1.0Kg								
8	Weldability	Ta method 1 Solder temperature: 260°C \pm 5°C Solder time: 2.0 \pm 0.5sec Solder: Environmental protection material (lead-free) Flux: 25/75 (rosin/ oil refined)	More than 90% area with tin						
9	Welding heat resistant	Solder wetting method Solder: 260 \pm 5°C Wetting time: 10 \pm 2sec Thickness of the heat insulation shield: 1.5 \pm 0.5mm	$c/c \leq 2\%$ No visible damage						
10	Vibration	Frequency: 100 ~ 500Hz Direction and time: Each 2 hours on 3 directions, total duration time is 6h, Amplitude: 0.75mm: During the last 30mins on each move direction vibration test, do electrical measurements to check intermittent contact or open circuit, or short circuit.	No visible damage on surface, No ≥ 0.5 ms intermittent contact, no open circuit or short circuit						

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