

(Non Polarity, For Twinkling Light)

MERITEK MERI

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FEATURES

• Suitable for the direction light of automobile and motorcycle

SPECIFICATIONS

Item	Characteristic								
Operating Temp Range	- 40 ~ +85°C								
Rated Working Voltage	13VDC								
Capacitance Tolerance (120Hz 20°C)	± 10%(K) ± 20%(M) +20/-10%(V)								
Leakage Current	I ≤ 1000(uA)	I : Leakage Current (μΑ) C : Rated Capacitance(μF) V : Working Voltage (V)							
(20°C)	\ast Under 100 Ω resister series and rated voltage applied whichever after 3 minutes								
Dissipation Factor (tan δ) (120Hz 20°C)	tan δ ≤ 0.50								

 \checkmark RoHS

PART NUMBER SYSTEM

		1		<u>13V</u>	152	M		<u>10</u> 2	<u>(25</u>			
Meritek Series —												
Rated Voltage -												
Rated Capacitance Express in micro farad(uF), First two digits are significant figures, Third digit denotes number of zeros. 'R' denotes decimal point for values less than 10uF												
Tolerance												
K - ±10%, M - ±20%, V	/ - +20/-10%											
Package												
Code TA	TR	Blank										
Tape & Ammo	Tape & Reel											
Case size – (D) Dian	neter x (L) Leng	th in mm (Optic	onal) –									

DIMENSIONS (mm)





φ D	10	12.5
F	5.0	5.0
d	0.6	0.6
а	1.5	1.5

CASE SIZE

		Case size: DxL	(mm)
Cap.	V	13	
(uF)	Item	DxL	
	1500	10x25	
	1700	12.5x20	
1	2200	12.5x25	

RoHS

TAPING SPECIFICATION

- Lead taping is designed for automatic insertion equipment.
- Capacitors with case size of 18mm x 35.5mm or smaller are available in taping type.

DIMENSIONS (Ø4~ Ø10)

ltom	Symbol	Case Size						Tolerance	Remark											
	Cymbol	4 x 5	5 x :	5 6.3x5	5 8 x 5	i 4 x	7	5 x 7	6.3x7	7	8 x 7 5 x	(11	6.3x11	8 x 11.5	10x12.5	10x16	10x18	10x20	Iorerance	Remark
Lead wire diameter	d	0.45 0.5 0.6							1		±0.05									
Body height	А		6.	0				8.0	0			12	.5	13	14	17.5	19.5	21.5	MAX	
Intervals of bodies	Р										12.7								±1.0	
Intervals of punched holes	P ₀										12.7								±0.2	
Distance between	_	3.85										Fig 1. Fig 4.								
holes and lead wire	P ₁	5.35 5.1	5.1		5 1	5.35	5.1	5.1	F 1		5	.1	E 1	4.6					±0.7	Fig 2.
Distance between		5.0	5.5	5 5.1	5.1	5.	0	5.55	5.1		4.0 5.	30	5.1	4.0						FIG 3.
holes and bodies	P ₂										6.35								±1.0	
											5.0									Fig 1. Fig 4.
Distance between lead and lead	F	2.0 2.5	2.5	5		2.0	2.5	2.5			2	.5							+0.8 -0.2	Fig 2. F ₁ :5.0 ^{+0.5}
		1.5	2.0	2.5	2.5	1.	5	2.0	2.5	5	3.5 2	.0	2.5	3.5						Fig 3. F ₁ :5.0 ^{+0.5}
Base tape width	W								1		18.0				1				±0.5	
Adhesive tape width	Wo										12.5								MIN	
Deviation between holes and base tape	W ₁										9.0								±0.5	
Deviation between adhesive and base tape	W ₂										1.5								MAX	
Distance between	Ц	17.5 18.5 20.0 18.5							±0.5	Fig 1. Fig 4.										
center	п	17.5 18.5 18.5						Fig 2. Fig 3.												
Lead wire clinched height	H ₀							16.0											±0.5	
Distance between body top and tape center	H ₁		24.5 27.5 32.5 33.0 36.0 38.0 41.0								MAX									
Punched hole diameter	D ₀										4.0								±0.3	
Length of not good lead slit	L	11.0										MAX								
Base and adhesive tape thickness	t	0.6									±0.3									
Deviation of body alignment	Δh										0								±2.0	
Deviation of body alignment	Δh_1										0								±1.0	



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DIMENSIONS (Ø12.5~ Ø18)

ltem	Symbol			Tolerance	Remark					
	Cymbol	12.5 x 20	12.5 x 25	12.5 x 30	16 x 25	16 x 31.5	16 x 35.5	18 x 35.5	loicitanee	Remain
Lead wire diameter	d	0.6			0.8	±0.05				
Body height	Α	21.5	26.5	31.5	26.5	33	37.0	37.0	MAX	
Intervals of bodies	Ρ		15.0			30.0)		±1.0	Fig 5. Fig 6.
Intervals of punched holes	P ₀				15.0				±0.2	
Distance between holes and lead wire	P ₁		5.0			3.75	5		±0.7	
Distance between holes and bodies	P ₂				7.5				±1.0	
Distance between lead and lead	F		5.0			7.5			+0.8 -0.2	
Base tape width	W				18.0				±0.5	
Adhesive tape width	W ₀				15.0				MIN	
Deviation between holes and base tape	W_1			±0.5						
Deviation between adhesive and base tape	W ₂			MAX						
Distance between body bottom and tape center	Н		16.5	±0.5	Fig 5. Fig 6.					
Distance between body top and tape center	H ₁	40.5	45.5	50.5	46.5	46.5 53.5 56.5 56.5			MAX	
Punched hole diameter	D ₀			±0.3						
Length of not good lead slit	L			MAX						
Base and adhesive tape thickness	t			±0.3						
Deviation of body alignment	Δh			±2.0						
Deviation of body alignment	Δh_1		±1.0							



RoHS

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SOLDERABILITY

Capacitor lead wire is dipping into the oven, and then, dipping in 245±3°C, solder liquid for 3±0.5 seconds, the substance is above the liquid solder 2mm, the dipping lead must be adherent 95% fresh tin at least.

RoHS

RESISTANCE TO SOLDERING HEAT

Put capacitor lead wire to dip 260±5°C in solder liquor away the body 2mm, after 10±1 seconds taken out, after 2 hours in room temperature, should do final measurements, the values are following:

- (A) Capacitance change: $\leq \pm 10\%$ of initial value
- (B) Dissipation factor: \leq initial specified value
- (C) Leakage current: \leq initial specified value
- (D) Visual: No damage