

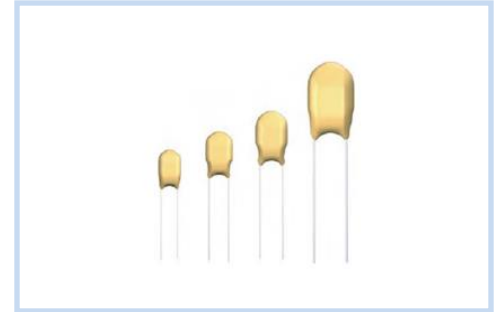
# Tantalum Capacitors Radial Leded Type

DT Series

MERITEK

## FEATURES

- Low current leakage
- Low dissipation factor
- Stable frequency, temperature performance



## PART NUMBERING SYSTEM

DT    105    M    016    TR    -    1  
(1)    (2)    (3)    (4)    (5)       (6)



No	item	Digit	Description	Series Reference
(1)	Meritek Series	DT	Tantalum Capacitor Series	Radial Leded Type
(2)	Capacitance	105	105: 1 $\mu$ F (10x10 <sup>5</sup> pF)	0.1~330 $\mu$ F
(3)	Tolerance	M	M: $\pm$ 20%	J: $\pm$ 5%, K: $\pm$ 10%
(4)	DC Voltage	016	016: 16VDC	004: 4VDC; 006:6.3VDC; 050:50VDC
(5)	Package Code	TR	TR: Tape and Reel	TA: Tape and Ammo; Blank: Bulk
(6)	Lead Forming Type	1	1: 2.5mm lead spacing	2: 5.0mm lead spacing

## SPECIFICATIONS

Item	Characteristic									
Operation Temperature Range	-55°C ~ +125°C									
Rated Working Voltage	4 ~ 50VDC									
Capacitance Tolerance	$\pm$ 20%(M), $\pm$ 10%(K), $\pm$ 5%(J)									
Leakage Current (20°C)	I <sub>0</sub> ≤ 0.02CV or 1 ( $\mu$ A ), *Whichever is greater I <sub>0</sub> : Leakage Current ( $\mu$ A )                      C: Rated Capacitance ( $\mu$ F )                      V: Rated Voltage ( V )									
Dissipation Factor (tan $\delta$ ) ( 20°C )	Capacitance ( $\mu$ F )	Capacitance Change (%)			Max D.F (%)				Max DCL ( $\mu$ F )	
		-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+85°C	+125°C
	≤1.0	$\pm$ 10	$\pm$ 15	$\pm$ 25	6	4	6	6	10I <sub>0</sub>	12.5I <sub>0</sub>
	1.5 ~ 6.8				8	6	8	8		
	10 ~ 68				10	8	10	10		
100 ~ 330	12				10	12	12			
Temperature Characteristic		-55°C			+85°C				+125°C	
	Capacitance	Within -12% of initial value			Within +12, 0% of initial value				Within +15, 0% of initial value	
	Dissipation Factor	Within value specified above			Within values specified above				Within values specified above	
	Leakage Current				Within 10 times of specified above				Within 12.5 times of specified above	

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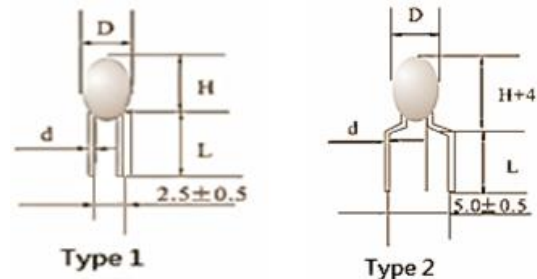
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## CAPACITANCE RANGE

Capacitance (μF)	CODE	Rated Voltage (V)							
		4	6.3	10	16	20	25	35	50
0.1	104							A	A
0.15	154							A	A
0.22	224							A	A
0.33	334							A	A
0.47	474							A	A
0.68	684							A	A
1	105				A	A	A	A	B
1.5	155				A	A	A	A	C
2.2	225			A	A	A	A	B	C
3.3	335		A	A	A	B	B	B	D
4.7	475	A	A	A	B	B	B	C	D
6.8	685	A	A	B	B	C	C	D	E
10	106	A	B	B	B	C	C	D	E
15	156	A	B	C	C	D	D	E	F
22	226	B	C	C	C	D	D	E	F
33	336	B	C	D	D	E	E	F	
47	476	C	D	D	D	E	E	F	
68	686	D	D	D	E	F	F		
100	107	D	E	E	E	F	F		
150	157	E	E	E	F				
220	227	E	E	F	F				
330	337	F	F						

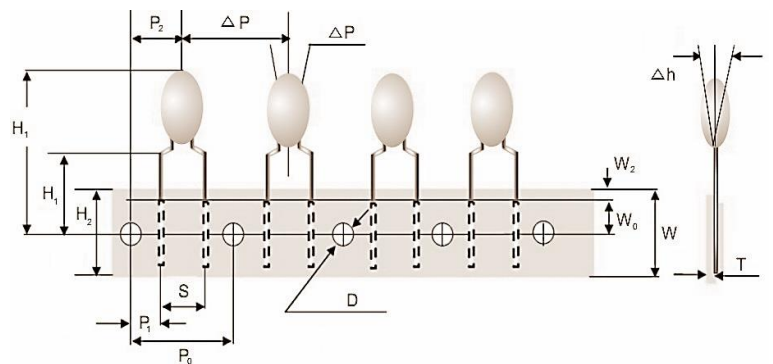
## DIMENSIONS

Case	D (MAX)	H (MAX)	L (±1)	d (±0.05)
A	4.0	6.0	14	0.5
B	4.8	7.2	14	0.5
C	5.5	8.0	14	0.5
D	6.0	9.4	14	0.5
E	7.2	11.5	14	0.5
F	8.2	12.5	14	0.5



## PACKAGING

Symbol	Dimensions -mm	
P	12.7±1.0	
P <sub>0</sub>	12.7±0.3	
W	17.5~19	
W <sub>0</sub>	5min	
H <sub>2</sub>	8.5~9.75	
W <sub>2</sub>	1max	
H <sub>1</sub>	32.5max	
D	4.0±0.2	
T	0.5±0.2	
Δh	0±2.0	
H	16±0.5	
S	2.5±0.5	5.0±0.7
P <sub>1</sub>	5.10±0.5	3.85±0.7
P <sub>2</sub>	6.35±0.4	
ΔP	±1.3max	



\*Specifications subject to change without notice.