

# MCCT Series

## Surface Mount Tantalum Capacitors



### Features:

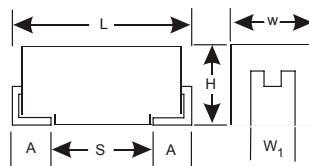
- General purpose.
- Surface mount tantalum capacitors.
- High capacitance.
- Please note all units are polarity sensitive.

### Case Dimensions

Code	EIA Code	W+0.2 (0.008) -0.1 (0.004)	L±0.2 (0.008)	H+0.2 (0.008) -0.1 (0.004)	W <sub>1</sub> ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Minimum
A	3216	1.6 (0.063)	3.2 (0.126)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528	2.8 (0.110)	3.5 (0.138)	1.9 (0.075)	2.2 (0.087)		1.4 (0.055)
C	6032	3.2 (0.126)	6.0 (0.236)	2.6 (0.102)		1.3 (0.051)	2.9 (0.114)
D	7343	4.3 (0.169)	7.3 (0.287)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)

W<sub>1</sub> Dimension applies to the Termination width for a dimensional area only.

Dimensions : Millimetres (Inches)



### Technical Specifications

<b>Technical Data</b>	All Technical data relate to an ambient temperature of +25°C							
<b>Capacitance Range</b>	0.1µF to 47µF							
<b>Capacitance Tolerance</b>	±20%							
<b>Rated Voltage DC (V<sub>R</sub>)</b>	≤ +85°C	6.3	10	16	20	25	35	
<b>Surge Voltage (V<sub>S</sub>)</b>	≤ +85°C	8	13	20	26	33	46	
<b>Temperature Range</b>	-55°C to +85°C							
<b>Environmental Classification</b>	55 / 85 / 56 (IEC 68-2)							
<b>Dissipation Factor</b>	≤0.04 for C <sub>R</sub> ≤1.0µF ≤0.06 for C <sub>R</sub> >1.0µF							
<b>Reliability</b>	1% per 1000 hours at 85°C with 0.1Ω/V series impedance, 60% confidence level.							



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### Ratings and Part Number Reference

Volt at 85°C	Capacitance (µF)	Case Size	DC Leakage (µA maximum)	DF % maximum	ESR maximum (Ω) at 100KHz	Part Number	
6.3V	3.3	A	0.5	6	7.0	MCCTA335M006	
	10.0				6.0	MCCTA106M006	
	22.0	C	2.3		MCCTC226M006		
	47.0		1.8		MCCTC476M006		
10V	4.7	A	0.5		5.0	MCCTA475M010	
	6.8	B	0.7		3.0	MCCTB685M010	
	10.0		1.0		2.5	MCCTB106M010	
16V	1.0	A	0.5		4	11.0	MCCTA105M016
	1.5			8.0	MCCTA155M016		
	2.2			6.5	MCCTA225M016		
	4.7	B	0.8	3.5	MCCTB475M016		
	10.0		1.6	2.8	MCCTB106M016		
	22.0	C	3.5	1.6	MCCTC226M016		
	33.0	D	5.3	6	0.9	MCCTD336M016	
	47.0		7.5			MCCTD476M016	
20V	2.2	B	0.5	6	3.5	MCCTB225M020	
	3.3		0.7		3.0	MCCTB335M020	
	4.7		1.0			MCCTB475M020	
	6.8	C	1.4		2.0	MCCTC685M020	
	22.0	D	4.4		0.9	MCCTD226M020	
25V	1.0	A	0.5	4	8.0	MCCTA105M025	
	2.2	B	0.6	6	4.5	MCCTB225M025	
	10.0	C	2.5		2.5	MCCTC106M025	
35V	0.1	A	0.5	4	24.0	MCCTA104M035	
	0.22				18.0	MCCTA224M035	
	0.33				15.0	MCCTA334M035	
	0.47				12.0	MCCTA474M035	
	1.0	B		6	6.5	MCCTB105M035	
	2.2	C			3.5	MCCTC225M035	
	4.7				1.6	2.2	MCCTC475M035
	6.8	D			2.4	1.3	MCCTD685M035
	10.0				3.5	1.0	MCCTD106M035

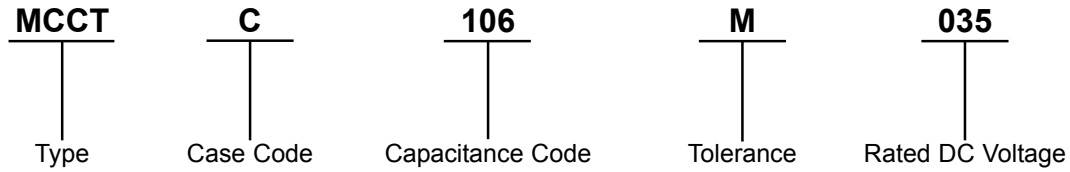


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### Part Number Explanation:



**Case Code** : A, B, C and D.

**Capacitance Code** : First two digits are the base value and last digit represents the conversion factor.

Last digit 4 represents two decimal in base value,

In code 224, Capacitance is 0.22, similarly for 104 capacitance is 0.1.

Last digit 5 represents single decimal in base value,

In code 335, Capacitance is 3.3, similarly for 475 capacitance is 4.7.

Last digit 6 represents no change in base value,

In code 336, Capacitance value is 33, similarly for 476 capacitance value is 47.

**Tolerance** : M =  $\pm 20\%$ .

**Voltage** : 006 = 6.3V dc

010 = 10V dc

016 = 16V dc

020 = 20V dc

025 = 25V dc

035 = 35V dc.

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## Surface Mount Tantalum Capacitors



### Notes:

### International Sales Offices:



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For enquiries from all other markets



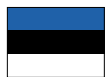
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