

MCCT Series

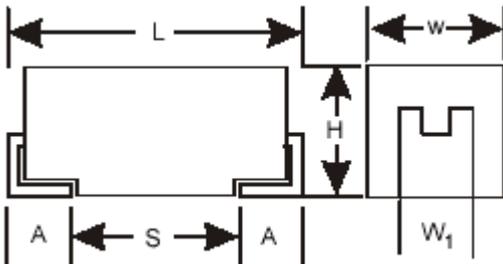


Surface Mount Tantalum Capacitors



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 ₁ ±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 (0.11)	3.5 (0.138)	1.9 (0.075)	2.2 (0.087)		1.4 (0.055)
C	6032	3.2 (0.126)	6 (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)

W₁ Dimension applies to the termination width for a dimensional area only

Dimensions : Millimetres (Inches)

Technical Specifications

Technical Data	All Technical data relate to an ambient temperature of +25°C							
Capacitance Range	0.1 µF to 47 µF							
Capacitance Tolerance	±20%							
Rated Voltage DC (VR)	≤ +85°C	6.3	10	16	20	25	35	
Surge Voltage (VS)	≤ +85°C	8	13	20	26	33	46	
Temperature Range	-55°C to +85°C							
Environmental Classification	55 / 85 / 56 (IEC 68-2)							
Dissipation Factor	≤0.04 for C _R ≤1 µF							
	≤0.06 for C _R >1 µF							
Reliability	1% per 1,000 hours at 85°C with 0.1 Ω / V series impedance, 60% confidence level							

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Specification Table

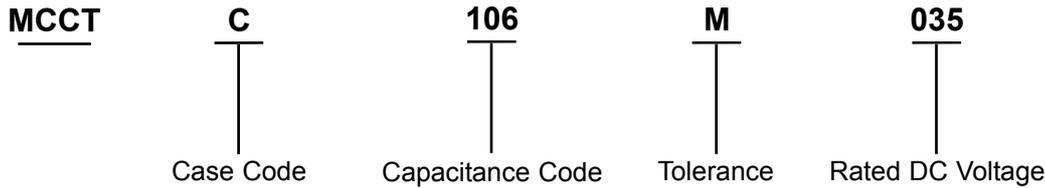
Volt at 85°C	Capacitance (µF)	Case Size	DC Leakage (µA Maximum)	DF % Maximum	ESR maximum (Ω) at 100 KHz	Part Number
6.3 V	3.3	A	0.5	6	7	MCCTA335M006
	10				6	MCCTA106M006
	22	C	2.3		MCCTC226M006	
	47		1.8		MCCTC476M006	
10 V	4.7	A	0.5		5	MCCTA475M010
	6.8	B	0.7		3	MCCTB685M010
	10		1	2.5	MCCTB106M010	
16 V	1	A	0.5	4	11	MCCTA105M016
	2.2				6.5	MCCTA225M016
	4.7	B	0.8	3.5	MCCTB475M016	
	10		1.6	2.8	MCCTB106M016	
	22	C	3.5	1.6	MCCTC226M016	
	33	D	5.3	6	0.9	MCCTD336M016
	47		7.5		0.9	MCCTD476M016
20 V	2.2	B	0.5	6	3.5	MCCTB225M020
	3.3		0.7		3	MCCTB335M020
	4.7		1		3	MCCTB475M020
	22	D	4.4		0.9	MCCTD226M020
25 V	1	A	0.5	4	8	MCCTA105M025
	2.2	B	0.6	6	4.5	MCCTB225M025
	10	C	2.5		2.5	MCCTC106M025
35 V	0.1	A	0.5	4	24	MCCTA104M035
	0.22				18	MCCTA224M035
	0.47				12	MCCTA474M035
	1	B	6.5	6.5	MCCTB105M035	
	2.2	C	0.8	6	3.5	MCCTC225M035
	4.7		1.6		2.2	MCCTC475M035
	6.8	D	2.4	1.3	MCCTD685M035	
	10		3.5	1	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 = 6.3 V dc, 010 = 10 V dc, 016 = 16 V dc, 020 = 20 V dc, 025 = 25 V dc, 035 = 35 V dc

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