

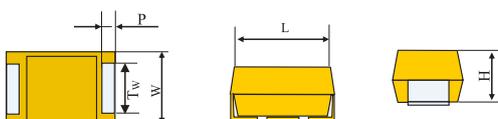
Surface Mount Tantalum Capacitors

multicomp PRO

RoHS
Compliant



Dimensions



Case Code	EIA/IECQ	L	W	H	P	Tw
A	3216	3.2 ±0.2	1.6 ±0.2	1.6 ±0.2	0.8 ±0.3	1.2 ±0.1
C	6032	6 ±0.3	3.2 ±0.3	2.5 ±0.3	1.3 ±0.3	2.2 ±0.1

Dimensions : Millimetres

Temperature Performance

Capacitance µF	Change of Capacitance (%)			Max. D.F (%)			Max DCL (µA)	
	-55°C	-85°C	+125°C	-55°C	+85°C	+125°C	+85°C	+125°C
≤1	-10	+10	+12	Below 1.5 (+25°C value)			10 lo	12.5 lo
1.5µF to 22µF								

Capacitor case sizes of rated voltage Table

VR ≤+85°C	6.3(J)	10(A)	16(C)	25(E)	35(V)
VC ≤+125°C	4	6.3	10	16	23
VS ≤+85°C	8	13	20	32	46
VR ≤+125°C	5	8	12	20	26

Temperature range: -55°C to +125°C

Cap CR (µF)	Cap Code	Case size								
0.1	1								A	A
1	105					A	A	A	A	C
2.2	225			A	A	A	A	A/C	C	C
4.7	475		A	A	A	A	A/C	A/C	C	C
10	106		A	A	A/C	A/C	C	C	C	
22	226		A/C	A/C	A/C	C	C	C		

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Refer to number electrical specification Table

U _R (V)	Case Size	C _R (μF)	DCL (μA) Max.	DF (%) Max.	ES (Ω) Max. 100kHz
6.3V 85°C (4V 125°C)					
6.3	A	10	0.6	6	4
6.3	C	22	1.4	6	1.8
10V 85°C (6.3V 125°C)					
10	A	4.7	0.5	6	5
10	A	10	1	6	4
16V 85°C (10V 125°C)					
16	A	1	0.5	4	11
16	A	2.2	0.5	6	6
16	A	4.7	0.8	6	4
16	A	10	1.6	8	3.2
16	C	22	3.5	6	1.6
25V 85°C (16V 125°C)					
25	A	1	0.5	4	8
25	C	10	2.5	6	1.8
35V 85°C (23V 125°C)					
35	A	0.1	0.5	4	24
35	A	1	0.5	4	7.5
35	C	4.7	16	6	1.5

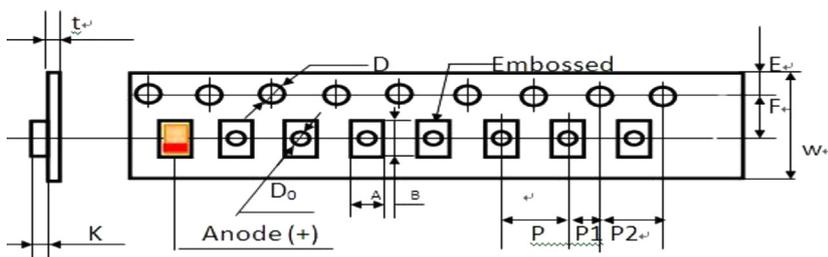
Remark

All technical data measured at 25°C.

Capacitance and loss test conditions: U = 1.7 ~ 2.2V, U partial = 0 ~ 1V (RMS), the measurement frequency: 100(120)HZ

The leakage current should be measured after 5 minutes application of rated voltage should +125°C with voltage derating.

Taping and Packing



Case Code	W±0.3	F±0.1	E±0.1	P±0.1	P1±0.1	P2±0.1	D±0.1	D ₀ min.	t±0.3	A±0.2	B±0.2	K±0.2
A	8	3.5	1.75	4	2	4	Ø1.5	Ø1	0.2	1.9	3.5	1.9
C	12	5.5	1.75	8	2	4	Ø1.5	Ø1.5	0.3	3.7	6.4	3

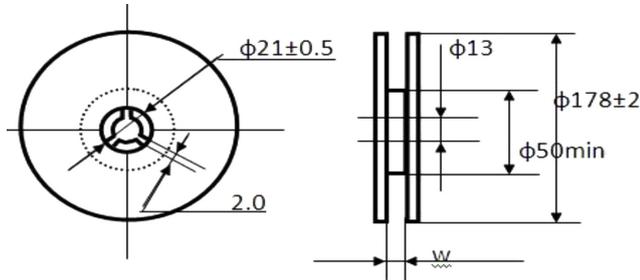
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Reel Specification



Case Code	W	Qty/reel (178mm)
A	8.4 +1.5	2000
C	12.4 +2	500

Dimensions : Millimetres

Check List

Item	Characteristics	Testing Method
Leakage Current	Less than 0.01CV or 0.5 μ A (whichever is greater)	Pressurize related voltage between two poles (Series connecting 1K current-limiting resistor)
Capacitance Tolerance	$\pm 10\%$ (K), $\pm 20\%$ (M)	The measurement frequency: 100 (120) Hz Voltage : 0.3 \pm 0.02V
Solderability	Soldering coverage rate $\geq 95\%$	Dip capacitor into flux for two seconds, then remove excessive amount of flux, dip capacitor into 245 \pm 3 $^{\circ}$ C welding slot with 10mm depth for three seconds, withdraw capacitor, clean capacitor with proper amount of solution, use ten times the microscope to observe.

Part Number Table

Description	Part Number
Tantalum Capacitor, 10 μ F, 16V, 20%, A Case, 3216-16	MP001195
Tantalum Capacitor, 10 μ F, 6.3V, 20%, A Case, 3216-16	MP001196
Tantalum Capacitor, 10 μ F, 25V, 20%, C Case, 6032-2.5	MP001197
Tantalum Capacitor, 4.7 μ F, 35V, 20%, C Case, 6032-2.5	MP001198
Tantalum Capacitor, 10 μ F, 10V, 20%, A Case, 3216-16	MP001199
Tantalum Capacitor, 22 μ F, 16V, 20%, C Case, 6032-2.5	MP001200
Tantalum Capacitor, 1 μ F, 16V, 20%, A Case, 3216-16	MP001201
Tantalum Capacitor, 0.1 μ F, 35V, 20%, A Case, 3216-16	MP001202
Tantalum Capacitor, 22 μ F, 6.3V, 20%, C Case, 6032-2.5	MP001203
Tantalum Capacitor, 2.2 μ F, 16V, 20%, A Case, 3216-16	MP001204
Tantalum Capacitor, 1 μ F, 35V, 20%, A Case, 3216-16	MP001205
Tantalum Capacitor, 1 μ F, 25V, 20%, A Case, 3216-16	MP001206
Tantalum Capacitor, 4.7 μ F, 16V, 20%, A Case, 3216-16	MP001207
Tantalum Capacitor, 4.7 μ F, 10V, 20%, A Case, 3216-16	MP001208

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