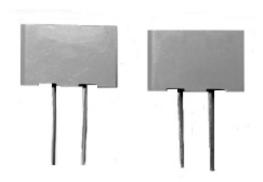
Molded, Radial Lead, Solid Tantalum Capacitors



The Type TIM radial molded solid tantalum capacitor is great for saving board space with its higher profile and smaller board space requirement. It is ideal for high density packaging coupled with low DCL and low ESR performance needed in compact power ply designs. The radius on the vertical side allows for polarization during automatic or hand insertion. The Type TIM is available in bulk or on radial type and reel.

Highlights

- Precision Molded
- Low DCL
- Low ESR
- Radius on vertical edge for polarity identification
- Excellent temperature stability
- Standoffs for easier flux removal
- Resistant to shock and vibraton

Specifications

Capacitance Range: 0.4 γμF to 220 μF

Voltage Range: VVVdc to 50 WVdc at 85 °C

Tolerance: ±10%, ±20%

Operating Temperature Range: -55 °C to +125 °C (with proper derating)

+25 °C - See ratings limit +85 °C - 10 x 25 °C limit

+125 °C - 12.5 x 25 °C limit

Capacitance change Maximum: -10% @ -55°C

+10% @ +85 °C +15% @ +125 °C

+15% @ +125 %

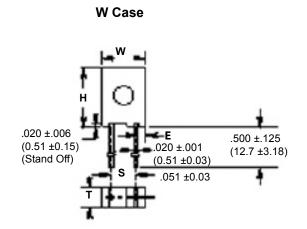
Maximum Power Dissipation: W & X .090 Watts
Y .100 Watts
Z .125 Watts

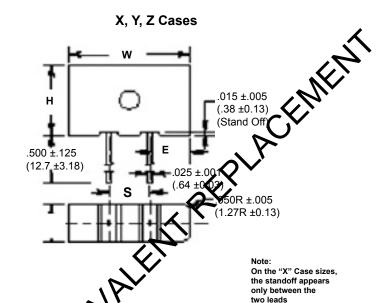
Reel Packaging per EIA- RS-468:

Case				
Code	Quantity			
W	1,500 per 14" Reel			
Х	1,500 per 14" Reel			
Υ	1,500 per 14" Reel			
Z	N/A			

Type TIM Solid Tantalum Capacitors

Capacitor Outline Drawing





Case Code	H Case Height	W Case Width	T Case Thickness	E Case to Wire	S Lead spacing
10/	.345 ±.008	.230 ±.005	€5±.005	.050 ±.010	.125 ±.005
W	(8.76 ±.203)	(5.84 ±.127)	(2)67 ±.127)	(1.27 ±0.25)	(3.18 ±0.127)
Х	.225 ±.015	.285 ±.015	.170 ±.015	.042 ±.010	.200 ±.005
^	(5.71 ±0.38	(7.24 ±.0.38)	(4.32 ±.0.38)	(1.07 ±.0.25)	(5.08 ±.0.127)
>	.325 ±.015	.325 ±.015	.170 ±.015	.062 ±.010	.200 ±.005
T	(8.26 ±0.38)	(8.26 6.38)	(4.32 ±.0.38)	(1.57 ±.0.25)	(5.08 ±.0.127)
7	.375 ±.015	60 1. 015	.195 ±.015	.200 ±.010	.200 ±.005
۷	(9.53 ±0.38)	(15.24 ±.0.38)	(4.95 ±.0.38)	(5.08 ±.0.25)	(5.08 ±.0.127)

Dimensions in inches

Part Numbering System

TIM pacitance **104** = 0.10 μF **105** = 1.0 μF $225 = 2.2 \mu F$ $186 = 18.6 \mu F$ $157 = 150 \mu F$

K

Tolerance $K = \pm 10\%$

 $M = \pm 20\%$

010

Voltage

006 = 6 Vdc010 = 10 Vdc

015 = 15 dc

020 = 20 Vdc 025 = 25 Vdc

035 = 35 Vdc

050 = 50 Vdc

F)	
Po	l lar	

P = Polar

Molded Case

Case Code

0

W X

Υ

Ζ

Type TIM Solid Tantalum Capacitors

Ratings

			Max	Max DF	Max I	Ripple
	Catalog	Case	DCL	@ +25 °C	25	°C
Cap	Part Number	Code	@ +25 °C	120 Hz	@ 120 Hz	@ 1 kHz
(μ F)			(μΑ)	(%)	(mA rms)	(mA rms)
			6 WVdc @ 85 °C			1
			4 WVdc @ 125 °C			
22	TIM226*006P0X	X	1	6	35	290/
56	TIM566*006P0Y	Υ	5	6	89	57 0
68	TIM686*006P0Y	Υ	5	6	100	630
220	TIM227*006P0Z	Z	10	6	350	1000
			10 WVdc @ 85 °C 7 WVdc @ 125 °C			•
6.8	TIM685*010P0X	Х	1	6	1	150
10	TIM106*010P0W	W	1 1	6	26	220
10	TIM106*010P0X	×	1 1	6	26	220
15	TIM156*010P0W	W	1		39	270
15	TIM156*010P0X	X	1	6 1	39	270
22	TIM226*010P0Y	Y	2	1/3	58	360
33	TIM336*010P0Y	Υ	2		87	440
39	TIM396*010P0Y	Υ	5		100	480
47	TIM476*010P0Y	Υ	5	✓ 6	120	590
56	TIM566*010P0Y	Υ	5	6	140	650
150	TIM157*010P0Z	Z	10,O	6	390	920
			15 WYdc @ 85 °C		•	
			10 Wyde @ 125 °C		1	
5.6	TIM565*015P0X	X		6	22	180
6.8	TIM685*015P0X	××××	1	6	27	180
8.2	TIM825*015P0X	×	1	6	32	200
10	TIM106*015P0Y	~ `	1	6	35	270
15	TIM156*015P0Y	$\mathcal{O}_{\mathcal{Y}}$	2	6	59	290
22	TIM226*015P0Y	(P ⁻ Y	5	6	87	360
27	TIM276*015P0Y	Y	5	6	100	390
33	TIM336*015P0X	Y	5	6	130	440
	\mathcal{C}		20 WVdc @ 85 °C I3 WVdc @ 125 °C			
5.6	TIM565*020POW	W	1	6	29	180
6.8	TIM685*020POW	W	1	6	36	200
			25 WVdc @ 85 °C	;		
1			17 WVdc @ 125 °C			•
3.3	TIM335*025P0W	W	1	4	21	150
J.	TIM335*025P0X	X	1	6	21	150
~\\	TIM475*025P0X	X	1	6	31	180
9 6.8	TIM685*025P0Y	Υ	1	6	45	200
10	TIM106*025P0X	X	1	6	4	190
10	TIM106*025P0Y	Υ	1	6	66	240
12	TIM126*025P0Y	Υ	1	6	79	260
15	TIM156*025P0Y	Υ	2	6	99	290

CDE may improve your order and shorten delivery by substituting a tighter tolerance or higher voltage capacitors in the same case size.

Type TIM Solid Tantalum Capacitors

			Max	Max DF	Max R	ipple
	Catalog	Case	DCL	@ +25 °C	25	°C
Сар	Part Number	Code	@ +25 °C	120 Hz	@ 120 Hz	@ 1 kHz
(µF)			(µA)	(%)	(mA rms)	(mA rms)
		35 \	WVdc @ 85 °C	1		
		23 V	VVdc @ 125 °C			M.
0.10	TIM104*035P0X	Х	1	6	1	CIT
0.22	TIM224*035P0X	X	1	6	2	
0.47	TIM474*035P0X	X	1	6	4.3	36
1.00	TIM105*035P0X	X	1	6	9.3	77
2.20	TIM225*035P0W	W	1	4	28	120
2.20	TIM225*035P0X	Х	1	6	X	120
2.70	TIM275*035P0W	W	1	4	25	140
3.30	TIM335*035P0X	X	1	6	30	150
3.90	TIM395*035P0Y	Y	1	6	35	180
4.70	TIM475*035P0X	X	1	61	32	155
4.70	TIM475*035P0Y	Y	1		43	200
6.80	TIM685*035P0Y	Y	2	\sim 6	63	210
8.20	TIM825*035P0Y	Y	5	6	76	220
10.00	TIM106*035P0Y	Y	5 📭	6	93	240
22.00	TIM226*035P0Z	Z	10	6	200	400
27.00	TIM276*035P0Z	Z	4 0	6	250	450
33.00	TIM336*035P0Z	Z	10	6	300	490
	'	50	∕/ ∕dc @ 85 °C	1	•	•
			VVdc @ 125 °C			
0.10	TIM104*050P0X	\ <u>\</u>	1	6	1.3	11
0.22	TIM224*050P0X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	6	2.9	24
0.33	TIM334*050P0X	C	1	6	4.4	36
1.0	TIM105*050P0W /	W	1	4	13	86
1.0	TIM105*050P0X	X	1	6	13	87
1.5	TIM155*050P6W	W	1	4	19	100
1.5	TIM155*050F0X	X	1	6	19	100
2.2	TIM225*050P0X	X	1	6	29	120
4.7	TW478*050P0Y	Y	5	6	62	200
5.6	TIM565*050P0Y	Y	5	6	74	220
6.8	TIM685*050P0Z	Z	5	6	90	220
10.0	TIM106*050P0Z	Z	5	6	130	270
	TIM156*050P0Z	z	10	6	190	330
- 	•					

CDE may improve your order and shorten delivery by substituting a tighter tolerance or higher voltage capacitors in the same case size.

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