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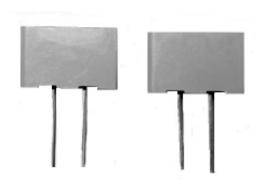
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







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 supply 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 tape 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: 0.10 μF to 220 μF

Voltage Range: 6 WVdc to 50 WVdc at 85 °C

Tolerance: ±10%, ±20%

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

DC Leakage: +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

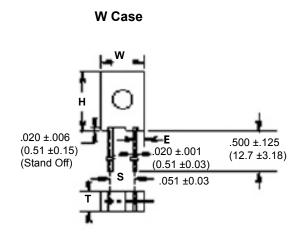
Maximum Power Dissipation: W & X .090 Watts

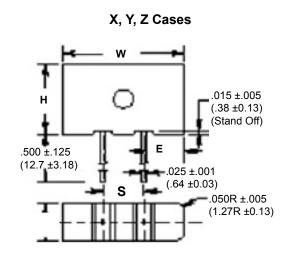
Y .100 Watts Z .125 Watts

Reel Packaging per EIA- RS-468:

Case	
Code	Quantity
W	1,500 per 14" Reel
X	1,500 per 14" Reel
Y	1,500 per 14" Reel
Z	N/A

Capacitor Outline Drawing



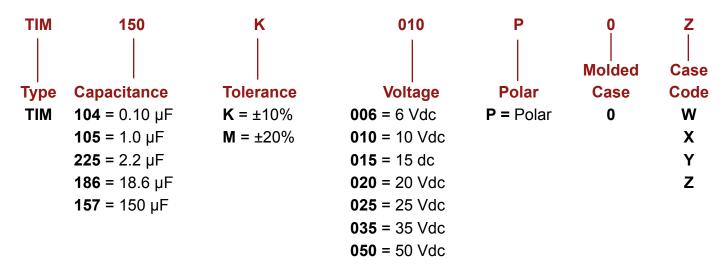


Note: On the "X" Case sizes, the standoff appears only between the two leads

	Н	W	Т	Е	S
Case Code	Case Height	Case Width	Case Thickness	Case to Wire	Lead spacing
W	.345 ±.008	.230 ±.005	.105 ±.005	.050 ±.010	.125 ±.005
	(8.76 ±.203)	(5.84 ±.127)	(2.67 ±.127)	(1.27 ±0.25)	(3.18 ±0.127)
×	.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)
V	.325 ±.015	.325 ±.015	.170 ±.015	.062 ±.010	.200 ±.005
Y	(8.26 ±0.38)	(8.26 ±.0.38)	(4.32 ±.0.38)	(1.57 ±.0.25)	(5.08 ±.0.127)
Z	.375 ±.015	.600 ±.015	.195 ±.015	.200 ±.010	.200 ±.005
	(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



Ratings

		_	Max	Max DF	Max Ripple 25 °C		
0	Catalog	Case	DCL	@ +25 °C		1	
Cap	Part Number	Code	@ +25 °C	120 Hz	@ 120 Hz	@ 1 kHz	
(µF)			(μΑ)	(%)	(mA rms)	(mA rms)	
6 WVdc @ 85 °C 4 WVdc @ 125 °C							
22	TIM226*006P0X	Х	1	6	35	290	
56	TIM566*006P0Y	Υ	5	6	89	570	
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	18	150	
10	TIM106*010P0W	W	1	6	26	220	
10	TIM106*010P0X	X	1	6	26	220	
15	TIM156*010P0W	W	1	6	39	270	
15	TIM156*010P0X	X	1	6	39	270	
22	TIM226*010P0Y	Y	2	6	58	360	
33	TIM336*010P0Y	Υ	2	6	87	440	
39	TIM396*010P0Y	Υ	5	6	100	480	
47	TIM476*010P0Y	Υ	5	6	120	590	
56	TIM566*010P0Y	Υ	5	6	140	650	
150	TIM157*010P0Z	Z	10	6	390	920	
			15 WVdc @ 85 °C				
			10 WVdc @ 125 °C	-			
5.6	TIM565*015P0X	X	1	6	22	180	
6.8	TIM685*015P0X	X	1	6	27	180	
8.2	TIM825*015P0X	X	1	6	32	200	
10	TIM106*015P0Y	Υ	1	6	35	270	
15	TIM156*015P0Y	Υ	2	6	59	290	
22	TIM226*015P0Y	Υ	5	6	87	360	
27	TIM276*015P0Y	Υ	5	6	100	390	
33	TIM336*015P0Y	Y	5	6	130	440	
			20 WVdc @ 85 °C				
5.6	TIM565*020POW	W	13 WVdc @ 125 °C	6	29	180	
5.6 6.8	TIM685*020POW	W	1	6	36	200	
	1 110003 0201 OVV	VV] 30	200	
			17 WVdc @ 03 °C				
3.3	TIM335*025P0W	W	1 1	4	21	150	
3.3	TIM335*025P0X	×	1	6	21	150	
4.7	TIM475*025P0X	X	1	6	31	180	
6.8	TIM685*025P0Y	Y	1	6	45	200	
10	TIM106*025P0X	X	1	6	4	190	
10	TIM106*025P0Y	Y	1	6	66	240	
12	TIM126*025P0Y	Y	1	6	79	260	
15	TIM156*025P0Y	Y	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.

			Max	Max DF	Max Ripple		
	Catalog	Case	DCL	@ +25 °C	25 °C		
Сар	Part Number	Code	@ +25 °C	120 Hz	@ 120 Hz	@ 1 kHz	
(μ F)			(µA)	(%)	(mA rms)	(mA rms)	
	35 WVdc @ 85 °C						
23 WVdc @ 125 °C							
0.10	TIM104*035P0X	X	1	6	1	9	
0.22	TIM224*035P0X	X	1	6	2	17	
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	20	120	
2.20	TIM225*035P0X	Х	1	6	20	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	×	1	6	32	155	
4.70	TIM475*035P0Y	Y	1	6	43	200	
6.80	TIM685*035P0Y	Y	2	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	10	6	250	450	
33.00	TIM336*035P0Z	Z	10	6	300	490	
	50 WVdc @ 85 °C						
	33 WVdc @ 125 °C						
0.10	TIM104*050P0X	X	1	6	1.3	11	
0.22	TIM224*050P0X	X	1	6	2.9	24	
0.33	TIM334*050P0X	×	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*050P0W	W	1	4	19	100	
1.5	TIM155*050P0X	×	1	6	19	100	
2.2	TIM225*050P0X	X	1	6	29	120	
4.7	TIM475*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	
15.0	TIM156*050P0Z	Z	10	6	190	330	

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