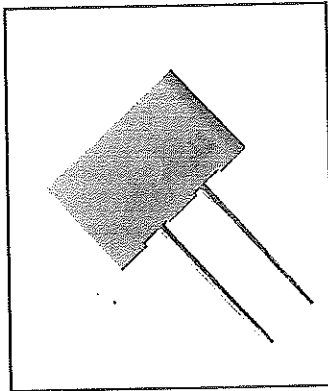


# Type TIM Solid Tantalum Capacitors



- Precision Molding
- Radial Leads
- Low DCL
- Low ESR
- Excellent Temperature Stability
- Resistant to Shock & Vibration
- Standoffs for Easier Flux Removal
- Radius on Vertical Edge Allows for Polarization During Automatic Insertion
- Tape & Reel Optional

## GENERAL SPECIFICATIONS

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

Voltage Range:  
6 to 50 WVDC @ 85°C

Capacitance Range:  
.10 μF to 220 μF

Capacitance Tolerance:  
±10%, ±20%

Capacitance Change Maximum:  
-10% @ -55°C  
+10% @ +85°C  
+15% @ +125°C

## DC Leakage:

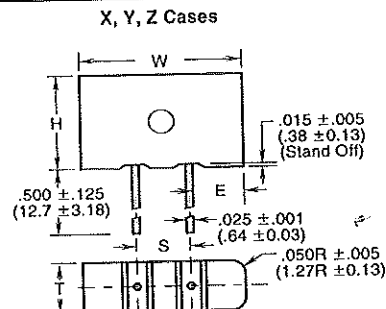
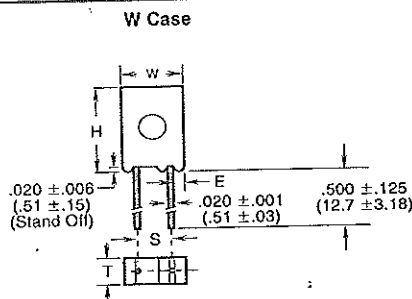
25°C - See Table Limit  
85°C - 10 x 25°C Limit  
125°C - 12.5 x 25°C Limit

## Maximum Power Dissipation:

Case W & X .090 Watts  
Case Y .100 Watts  
Case 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



**Note:**  
On the 'X' case size, the standoff appears only between the two leads

Dimensions - inches (Millimeters)

Case Code	H Case Height	W Case Width	T Case Thickness	E Case to Wire	S Lead Spacing
W	.345 ± .008 (8.76 ± .203)	.230 ± .005 (5.84 ± .127)	.105 ± .005 (2.67 ± .127)	.050 ± .010 (1.27 ± 0.25)	.125 ± .005 (3.18 ± .127)
X	.225 ± .015 (5.71 ± 0.38)	.285 ± .015 (7.24 ± 0.38)	.170 ± .015 (4.32 ± 0.38)	.042 ± .010 (1.07 ± 0.25)	.200 ± .005 (5.08 ± .127)
Y	.325 ± .015 (8.26 ± 0.38)	.325 ± .015 (8.26 ± 0.38)	.170 ± .015 (4.32 ± 0.38)	.062 ± .010 (1.57 ± 0.25)	.200 ± .005 (5.08 ± .127)
Z	.375 ± .015 (9.53 ± 0.38)	.600 ± .015 (15.24 ± 0.38)	.195 ± .015 (4.95 ± 0.38)	.200 ± .010 (5.08 ± 0.25)	.200 ± .005 (5.08 ± .127)

6 WVDC @ 85°C 4 WVDC @ 125°C						
22	X	1	6	35	290	TIM226*006POX
56	Y	5	6	89	570	TIM566*006POY
68	Y	5	6	100	630	TIM686*006POY
220	Z	10	6	350	1000	TIM227*006POZ

10 WVDC @ 85°C 7 WVDC @ 125°C						
10	W	1	6	26	220	TIM106*010POW
15	W	1	6	39	270	TIM156*010POW
6.8	X	1	6	18	150	TIM685*010POX
10	X	1	6	26	220	TIM106*010POX
15	X	1	6	39	270	TIM156*010POX
22	Y	2	6	58	360	TIM226*010POY
33	Y	2	6	87	440	TIM336*010POY
39	Y	5	6	100	480	TIM396*010POY
47	Y	5	6	120	590	TIM476*010POY
56	Y	5	6	140	650	TIM566*010POY
150	Z	10	6	390	920	TIM157*010POZ

\* Indicate capacitance tolerance: K = ±10%, M = ±20%

15 WVDC @ 85°C 10 WVDC @ 125°C						
5.6	X	1	6	22	180	TIM565*015POX
6.8	X	1	6	27	180	TIM685*015POX
8.2	X	1	6	32	200	TIM825*015POX
10	Y	1	6	35	270	TIM106*015POY
15	Y	2	6	59	290	TIM156*015POY
22	Y	5	6	87	360	TIM226*015POY
27	Y	5	6	100	390	TIM276*015POY
33	Y	5	6	130	440	TIM336*015POY

20 WVDC @ 85°C 13 WVDC @ 125°C						
5.6	W	1	6	29	180	TIM565*020POW
6.8	W	1	6	36	200	TIM685*020POW

25 WVDC @ 85°C 17 WVDC @ 125°C						
1.0	X	1	6	9.3	77	TIM105*025POX
3.3	W	1	4	21	150	TIM335*025POW
3.3	X	1	6	21	150	TIM335*025POX
4.7	X	1	6	31	180	TIM475*025POX
6.8	Y	1	6	45	200	TIM685*025POY

NACC reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.

# Type TIM Solid Tantalum Capacitors



Capacitance (µF)	Case Size	Temperature Range	Part Number			
10	X	1	6	40	190	TIM106*025P0X
10	Y	1	6	66	240	TIM106*025P0Y
12	Y	1	6	79	260	TIM126*025P0Y
15	Y	2	6	99	290	TIM156*025P0Y

Capacitance (µF)	Case Size	Temperature Range	Part Number			
0.10	X	1	6	1.3	11	TIM104*050P0X
0.22	X	1	6	2.9	24	TIM224*050P0X
0.33	X	1	6	4.4	36	TIM334*050P0X
1.0	W	1	4	13	86	TIM105*050P0W
1.0	X	1	6	13	87	TIM105*050P0X
1.5	W	1	4	19	100	TIM155*050P0W
1.5	X	1	6	19	100	TIM155*050P0X
2.2	X	1	6	29	120	TIM225*050P0X
4.7	Y	5	6	62	200	TIM475*050P0Y
5.6	Y	5	6	74	220	TIM565*050P0Y
6.8	Z	5	6	90	220	TIM685*050P0Z
10	Z	5	6	130	270	TIM106*050P0Z
15	Z	10	6	190	330	TIM156*050P0Z

25 WVDC @ 85°C 17 WVDC @ 125°C						
10	X	1	6	40	190	TIM106*025P0X
10	Y	1	6	66	240	TIM106*025P0Y
12	Y	1	6	79	260	TIM126*025P0Y
15	Y	2	6	99	290	TIM156*025P0Y

50 WVDC @ 85°C 33 WVDC @ 125°C						
0.10	X	1	6	1.3	11	TIM104*050P0X
0.22	X	1	6	2.9	24	TIM224*050P0X
0.33	X	1	6	4.4	36	TIM334*050P0X
1.0	W	1	4	13	86	TIM105*050P0W
1.0	X	1	6	13	87	TIM105*050P0X
1.5	W	1	4	19	100	TIM155*050P0W
1.5	X	1	6	19	100	TIM155*050P0X
2.2	X	1	6	29	120	TIM225*050P0X
4.7	Y	5	6	62	200	TIM475*050P0Y
5.6	Y	5	6	74	220	TIM565*050P0Y
6.8	Z	5	6	90	220	TIM685*050P0Z
10	Z	5	6	130	270	TIM106*050P0Z
15	Z	10	6	190	330	TIM156*050P0Z

35 WVDC @ 85°C 23 WVDC @ 125°C						
2.2	W	1	4	20	120	TIM225*035P0W
2.7	W	1	4	25	140	TIM275*035P0W
0.10	X	1	6	1.0	9.0	TIM104*035P0X
0.22	X	1	6	2.0	17	TIM224*035P0X
0.47	X	1	6	4.3	36	TIM474*035P0X
1.0	X	1	6	9.3	77	TIM105*035P0X
2.2	X	1	6	20	120	TIM225*035P0X
3.3	X	1	6	30	150	TIM335*035P0X
3.9	Y	1	6	35	180	TIM395*035P0Y
4.7	X	1	6	32	155	TIM475*035P0X
4.7	Y	1	6	43	200	TIM475*035P0Y
6.8	Y	2	6	63	210	TIM685*035P0Y
8.2	Y	5	6	76	220	TIM825*035P0Y
10	Y	5	6	93	240	TIM106*035P0Y
22	Z	10	6	200	400	TIM226*035P0Z
27	Z	10	6	250	450	TIM276*035P0Z
33	Z	10	6	300	490	TIM336*035P0Z

NACC reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.

\* Indicate capacitance tolerance: K = ±10%, M = ±20%

Type TIM Solid Tantalum Capacitors