



# AVX vs. Vishay Tantalum

## INTRODUCTION

Attached is a list of MnO<sub>2</sub> and polymer tantalum capacitors from competitor.

The assumptions are as follows:

- we matched capacitance and rated voltage
- we matched footprint and in most cases the height is the same. Pad layout may be slightly different. Engineering should verify for their specific application
- we matched electrical parameters of DC leakage, max. dissipation factor, ESR for majority list. Engineer to review electrical parameters for their specific application

MnO <sub>2</sub>		
MANUFACTURER PART NUMBER	PRODUCT DESCRIPTION	VISHAY PART NUMBER
TCTU0G475M8R	4.7 µF 4 V, 0402	<a href="#">298D475X0004K2T</a>
TCP0G106M8R	10 µF 4 V, 0805	<a href="#">TL8W9106M004C</a>
TCM0G226M8R	22 µF 4 V, 0603	<a href="#">298D226X0004M2T</a>
TCP0G226M8R	22 µF 4 V, 0805	<a href="#">TMCP0G226MTRF</a>
TCA0G336M8R	33 µF 4 V, 1206	<a href="#">293D336X0004A2TE3</a>
TCA0G107M8R	100 µF 4 V, 1206	<a href="#">293D107X0004A2TE3</a>
TCA0G107M8R-02	100 µF 4 V, 1206	<a href="#">293D107X0004A2TE3</a>
TCTAL0G227M8R-D	220 µF 4 V, 1206	<a href="#">TR8Q227M004C1200</a>
TCTAL0G227M8R-D2	220 µF 4 V, 1206	<a href="#">TR8Q227M004C1200</a>
TCTAS0G227M8R-V1	220 µF 4 V, 1206	<a href="#">TR8Q227M004C1200</a>
TCTU0J105K8R	1 µF 6.3 V, 0402	<a href="#">298D105X06R3K2T</a>
TCTU0J105M8R-02	1 µF 6.3 V, 0402	<a href="#">298D105X06R3K2T</a>
TCP0J225M8R	2.2 µF 6.3 V, 0805	<a href="#">TL8W9225M6R3C</a>
TCTU0J225M8R	2.2 µF 6.3 V, 0402	<a href="#">298D225X06R3K2T</a>
TCTU0J225M8R-02	2.2 µF 6.3 V, 0402	<a href="#">298D225X06R3K2T</a>
TCA0J475M8R	4.7 µF 6.3 V, 1206	<a href="#">293D475X06R3A2TE3</a>
TCM0J475M8R	4.7 µF 6.3 V, 0603	<a href="#">298D475X06R3M2T</a>
TCP0J475M8R	4.7 µF 6.3 V, 0805	<a href="#">TMCP0J475MTRF</a>
TCP0J685M8R	6.8 µF 6.3 V, 0805	<a href="#">TMCP0J685MTRF</a>
TCA0J106M8R	10 µF 6.3 V, 1206	<a href="#">293D106X06R3A2TE3</a>
TCM0J106M8R	10 µF 6.3 V, 0603	<a href="#">298D106X06R3M2T</a>
TCM0J106M8R-02	10 µF 6.3 V, 0603	<a href="#">298D106X06R3M2T</a>
TCP0J106M8R	10 µF 6.3 V, 0805	<a href="#">TMCP0J106MTRF</a>
TCP0J106M8R-O2	10 µF 6.3 V, 0805	<a href="#">TMCP0J106MTRF</a>
TCP0J106M8R-Y1	10 µF 6.3 V, 0805	<a href="#">298D106X06R3S2T</a>
TCP0J156M8R	15 µF 6.3 V, 0805	<a href="#">TL8W9156M6R3C</a>
TCA0J226M8R	22 µF 6.3 V, 1206	<a href="#">293D226X06R3A2TE3</a>
TCM0J226M8R-CA2	22 µF 6.3 V, 0603	<a href="#">298D226X06R3M2T</a>
TCM0J226M8R-V1	22 µF 6.3 V, 0603	<a href="#">298D226X06R3M2T</a>
TCP0J226M8R	22 µF 6.3 V, 0805	<a href="#">TL8W9226M6R3C</a>
TCP0J226M8R-02	22 µF 6.3 V, 0805	<a href="#">TL8W9226M6R3C</a>
TCA0J336M8R	33 µF 6.3 V, 1206	<a href="#">293D336X06R3A2TE3</a>
TCM0J336M8R-V1	33 µF 6.3 V, 0603	<a href="#">298D336X06R3M2T</a>
TCA0J476M8R	47 µF 6.3 V, 1206	<a href="#">293D476X06R3A2TE3</a>
TCA0J476M8R-02	47 µF 6.3 V, 1206	<a href="#">293D476X06R3A2TE3</a>
TCA0J476M8R-E1	47 µF 6.3 V, 1206	<a href="#">293D476X06R3A2TE3</a>
TCTAS0J476M8R	47 µF 6.3 V, 1206	<a href="#">298D476X06R3A2T</a>
TCTP0J476M8R	47 µF 6.3 V, 0805	<a href="#">298D476X06R3R2T</a>
TCTP0J476M8R-02	47 µF 6.3 V, 0805	<a href="#">298D476X06R3R2T</a>



<b>MnO<sub>2</sub></b>		
<b>MANUFACTURER PART NUMBER</b>	<b>PRODUCT DESCRIPTION</b>	<b>VISHAY PART NUMBER</b>
TCTAL0J107M8R	100 µF 6.3 V, 1206	<a href="#">TL8A0107M6R3C</a>
TCTAL0J107M8R-02	100 µF 6.3 V, 1206	<a href="#">TL8A0107M6R3C</a>
TCTAL0J107M8R-H10	100 µF 6.3 V, 1206	<a href="#">TL8A0107M6R3C</a>
TCTAL0J107M8R-Y2	100 µF 6.3 V, 1206	<a href="#">TL8A0107M6R3C</a>
TCTAS0J107M8R	100 µF 6.3 V, 1206	<a href="#">TL8A0107M6R3C</a>
TCTAS0J107M8R-CA2	100 µF 6.3 V, 1206	<a href="#">TL8A0107M6R3C</a>
TCP1A105M8R	1 µF 10 V, 0805	<a href="#">TL8W9105M010C</a>
TCA1A225M8R	2.2 µF 10 V, 1206	<a href="#">293D225X0010A2TE3</a>
TCM1A225M8R	2.2 µF 10 V, 0603	<a href="#">298D225X0010M2T</a>
TCP1A225M8R	2.2 µF 10 V, 0805	<a href="#">TL8W9225M010C</a>
TCA1A335M8R	3.3 µF 10 V, 1206	<a href="#">293D335X0010A2TE3</a>
TCP1A335M8R	3.3 µF 10 V, 0805	<a href="#">TMCP1A335MTRF</a>
TCA1A475M8R	4.7 µF 10 V, 1206	<a href="#">TR3A475M010C3000</a>
TCM1A475M8R	4.7 µF 10 V, 0603	<a href="#">298D475X0010M2T</a>
TCP1A475M8R	4.7 µF 10 V, 0805	<a href="#">TMCP1A475MTRF</a>
TCA1A106M8R	10 µF 10 V, 1206	<a href="#">TR3A106M010C2000</a>
TCM1A106M8R	10 µF 10 V, 0603	<a href="#">298D106X0010M2T</a>
TCM1A106M8R-02	10 µF 10 V, 0603	<a href="#">298D106X0010M2T</a>
TCM1A106M8R-CA2	10 µF 10 V, 0603	<a href="#">298D106X0010M2T</a>
TCP1A106M8R	10 µF 10 V, 0805	<a href="#">TL8W9106M010C</a>
TCP1A106M8R-02	10 µF 10 V, 0805	<a href="#">TL8W9106M010C</a>
TCA1A156M8R	15 µF 10 V, 1206	<a href="#">293D156X0010A2TE3</a>
TCA1A226M8R	22 µF 10 V, 1206	<a href="#">293D226X0010A2TE3</a>
TCTAL1A476M8R	47 µF 10 V, 1206	<a href="#">TL8A0476M010C</a>
TCTAL1A476M8R-02	47 µF 10 V, 1206	<a href="#">TL8A0476M010C</a>
TCTAL1A476M8R-CA2	47 µF 10 V, 1206	<a href="#">TL8A0476M010C</a>
TCTAS1A476M8R	47 µF 10 V, 1206	<a href="#">TL8A0476M010C</a>
TCTAS1A476M8R-CA2	47 µF 10 V, 1206	<a href="#">TL8A0476M010C</a>
TCA1C105M8R	1 µF 16 V, 1206	<a href="#">TR3A105M016C6200</a>
TCM1C105M8R	1 µF 16 V, 0603	<a href="#">298D105X0016M2T</a>
TCM1C105M8R-02	1 µF 16 V, 0603	<a href="#">298D105X0016M2T</a>
TCP1C105M8R	1 µF 16 V, 0805	<a href="#">TMCP1C105MTRF</a>
TCA1C225M8R	2.2 µF 16 V, 1206	<a href="#">TR3A225M016C4000</a>
TCM1C225M8R	2.2 µF 16 V, 0603	<a href="#">298D225X0016M2T</a>
TCM1C225M8R-CA2	2.2 µF 16 V, 0603	<a href="#">298D225X0016M2T</a>
TCA1C335M8R	3.3 µF 16 V, 1206	<a href="#">TR3A335M016C4000</a>
TCA1C475M8R	4.7 µF 16 V, 1206	<a href="#">TR3A475M016C3000</a>
TCA1C685M8R	6.8 µF 16 V, 1206	<a href="#">TR3A685M016C3000</a>
TCA1C106K8R	10 µF 16 V, 1206	<a href="#">293D106X9016A2TE3</a>
TCA1C106K8R-02	10 µF 16 V, 1206	<a href="#">293D106X9016A2TE3</a>
TCA1C106M8R	10 µF 16 V, 1206	<a href="#">293D106X0016A2TE3</a>
TCA1C106M8R-02	10 µF 16 V, 1206	<a href="#">293D106X0016A2TE3</a>
TCTP1C106M8R	10 µF 16 V, 0805	<a href="#">TM8R106M016CBA</a>
TCTP1C106M8R-E1	10 µF 16 V, 0805	<a href="#">TM8R106M016CBA</a>
TCTP1C106M8R-K1	10 µF 16 V, 0805	<a href="#">TM8R106M016CBA</a>
TCA1D105M8R	1 µF 20 V, 1206	<a href="#">TR3A105M020C5500</a>
TCA1D475M8R	4.7 µF 20 V, 1206	<a href="#">TR3A475M020C3500</a>
TCTAL1D106M8R	10 µF 20 V, 1206	<a href="#">TM8A106M020CBA</a>
TCA1E105M8R	1 µF 25 V, 1206	<a href="#">TR3A105M025C4000</a>
TCP1E105M8R	1 µF 25 V, 0805	<a href="#">298D105X0025S2T</a>
TCA1E335M8R	3.3 µF 25 V, 1206	<a href="#">TR3A335M025C3500</a>
TCA1E475M8R	4.7 µF 25 V, 1206	<a href="#">TR3A475M025C3000</a>
TCTAS1V105M8R	1 µF 35 V, 1206	<a href="#">TMCHA1V105MTRF</a>
TCA1H154M8R	0.15 µF 50 V, 1206	<a href="#">TR3A154M050C10RQ</a>



POLYMER		
MANUFACTURER PART NUMBER	PRODUCT DESCRIPTION	VISHAY PART NUMBER
TCOB0E227M8R-EN2	220 µF 2.5 V, 1411	<a href="#">T55B227M2R5C0035</a>
TCTOBL0E227M8R-ZN1	220 µF 2.5 V, 1411	<a href="#">T55B227M2R5C0035</a>
TCOB0E337M8R-EN2	330 µF 2.5 V, 1411	<a href="#">T55B337M2R5C0035</a>
TCOB0E337M8R-ES2	330 µF 2.5 V, 1411	<a href="#">T55B337M2R5C0045</a>
TCTOBL0E337M8R-2A1	330 µF 2.5 V, 1411	<a href="#">T55B337M2R5C0025</a>
TCTOAL0G107M8R	100 µF 4V, 1206	<a href="#">T55A107M004C0200</a>
TCSOM0J226M8R	22 µF 6.3 V, 0603	<a href="#">T58MM226M6R3C0300</a>
TCSOM0J226M8R-02	22 µF 6.3 V, 0603	<a href="#">T58MM226M6R3C0300</a>
TCTOAL0J476M8R	47 µF 6.3 V, 1206	<a href="#">T55A476M6R3C0200</a>
TCTOAL0J476M8R-02	47 µF 6.3 V, 1206	<a href="#">T55A476M6R3C0200</a>
TCOB0J107M8R	100 µF 6.3 V, 1411	<a href="#">T55B107M6R3C0035</a>
TCOB0J107M8R-EN1	100 µF 6.3 V, 1411	<a href="#">T55B107M6R3C0035</a>
TCOB0J107M8R-EN2	100 µF 6.3 V, 1411	<a href="#">T55B107M6R3C0035</a>
TCOB0J107M8R-ES1	100 µF 6.3 V, 1411	<a href="#">T55B107M6R3C0045</a>
TCOB0J107M8R-ES2	100 µF 6.3 V, 1411	<a href="#">T55B107M6R3C0045</a>
TCTOA0J107M8R-ZS1	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0045</a>
TCTOA0J107M8R-ZS2	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0045</a>
TCTOA0J107M8R-ZW1	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0070</a>
TCTOA0J107M8R-ZW2	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0070</a>
TCTOAS0J107M8R-ZU1	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0045</a>
TCTOAS0J107M8R-ZW1	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0070</a>
TCTOAS0J107M8R-ZW2	100 µF 6.3 V, 1206	<a href="#">T55A107M6R3C0070</a>
TCTOBL0J107M8R-ZS1	100 µF 6.3 V, 1411	<a href="#">T55B107M6R3C0045</a>
TCOB0J157M8R-EN2	150 µF 6.3 V, 1411	<a href="#">T55B157M6R3C0035</a>
TCTOBL0J157M8R-ZK1	150 µF 6.3 V, 1411	<a href="#">T55B157M6R3C0025</a>
TCTOBL0J157M8R-ZK6	150 µF 6.3 V, 1411	<a href="#">T55B157M6R3C0025</a>
TCTOBL0J157M8R-ZN1	150 µF 6.3 V, 1411	<a href="#">T55B157M6R3C0035</a>
TCOB0J227M8R-EN1	220 µF 6.3 V, 1411	<a href="#">T55B227M6R3C0035</a>
TCOB0J227M8R-EN2	220 µF 6.3 V, 1411	<a href="#">T55B227M6R3C0035</a>
TCTOM1A335M8R	3.3 µF 10 V, 0603	<a href="#">T55J335M010C0500</a>
TCTOP1A106M8R	10 µF 10 V, 0805	<a href="#">T55P106M010C0200</a>
TCTOAL1A226M8R	22 µF 10 V, 1206	<a href="#">T55A226M010C0200</a>
TCOB1A336M8R	33 µF 10 V, 1411	<a href="#">T55B336M010C0150</a>
TCTOAS1A336M8R-ZF1	33 µF 10 V, 1206	<a href="#">T55A336M010C0150</a>
TCOB1A476M8R	47 µF 10 V, 1411	<a href="#">T55B476M010C0150</a>
TCTOA1A476M8R	47 µF 10 V, 1206	<a href="#">T58A0476M010C0175</a>
TCTOBL1A476M8R-ZB1	47 µF 10 V, 1411	<a href="#">T55B476M010C0070</a>
TCOB1C336M8R	33 µF 16 V, 1411	<a href="#">T55B336M016C0070</a>
TCTOBL1C336M8R-ZW1	33 µF 16 V, 1411	<a href="#">T55B336M016C0070</a>
TCSOPL1E475M8R-ZT1	4.7 µF 25 V, 0805	<a href="#">T58W0475M025C0500</a>
TCSOPS1E475M8R-ZT1	4.7 µF 25 V, 0805	<a href="#">T58W0475M025C0500</a>
TCOB1E156M8R	15 µF 25 V, 1411	<a href="#">T55B156M025C0100</a>
TCOB1E156M8R-HB1	15 µF 25 V, 1411	<a href="#">T55B156M025C0100</a>
TCTOBL1E156M8R-ZB1	15 µF 25 V, 1411	<a href="#">T55B156M025C0100</a>
TCTOBL1E226M8R-ZB1	22 µF 25 V, 1411	<a href="#">T58BB226M025C0100</a>
TCSOPS1V105M8R-UT1	1 µF 35 V, 0805	<a href="#">T58W9105M035C0500</a>
TCTOBL1V106M8R-ZD1	10 µF 35 V, 1411	<a href="#">T55B106M035C0200</a>