



MLCC vs. VISHAY Tantalum

INTRODUCTION

Attached is a list of the MLCCs which are in short supply.

In crossing these parts, the first goal is to offer a polymer alternative to MLCC. If polymer is not available, then we can offer a standard tantalum.

The assumptions are as follows:

- we matched capacitance. Depending on application, user may be able to use lower value tantalum due to VCC and TCC which lower effective capacitance of MLCC
- we matched voltage rating. For polymer tantalum, it is ok. For standard tantalum, engineer should verify that application voltage meets 50 % derating guideline

CAPACITOR TYPE	DERATING GUIDELINE
MLCC	10 % to 20 %
Polymer tantalum	10 % to 20 %
Standard tantalum	50 %

- we did not consider ESR or DCL since these performance parameters are significantly different for each capacitor type and should be checked relative to the needs of the application

MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
AVX	04024D225KAT2A	2.2 µF, 4 V, 10 %, 0402	X5R	298D225X06R3K2T
AVX	04024D225MAT2A	2.2 µF, 4 V, 20 %, 0402	X5R	298D225X06R3K2T
AVX	04024D475MAT2A	4.7 µF, 4 V, 20 %, 0402	X5R	298D475X0004K2T
AVX	04026D105KAT2A	1.0 µF, 6.3 V, 10 %, 0402	X5R	298D105X06R3K2T
AVX	04026D105KAT4A	1.0 µF, 6.3 V, 10 %, 0402	X5R	298D105X06R3K2T
AVX	04026D105MAT2A	1.0 µF, 6.3 V, 20 %, 0402	X5R	298D105X06R3K2T
AVX	04026D225KAT2A	2.2 µF, 6.3 V, 10 %, 0402	X5R	298D225X06R3K2T
AVX	04026D225MAT2A	2.2 µF, 6.3 V, 20 %, 0402	X5R	298D225X06R3K2T
AVX	04026D475KAT2A	4.7 µF, 6.3 V, 10 %, 0402	X5R	298W475X0010K2T
AVX	04026D475MAT2A	4.7 µF, 6.3 V, 20 %, 0402	X5R	298W475X0010K2T
AVX	04026W105KAT2A	1.0 µF, 6.3 V, 10 %, 0402	X6S	298D105X06R3K2T
AVX	0402YD105KAT2A	1.0 µF, 16 V, 10 %, 0402	X5R	298D105X0016K2T
AVX	0402ZD105KAT2A	1.0 µF, 10 V, 10 %, 0402	X5R	298D105X0010K2T
AVX	0402ZD105MAT2A	1.0 µF, 10 V, 20 %, 0402	X5R	298D105X0010K2T
AVX	0402ZD475KAT2A	4.7 µF, 10 V, 10 %, 0402	X5R	298W475X0010K2T
AVX	0402ZD475MAT2A	4.7 µF, 10 V, 20 %, 0402	X5R	298W475X0010K2T
AVX	06033C105KAT2A	1.0 µF, 25 V, 10 %, 0603	X7R	298D105X9025M2T
AVX	06033D105KAT2A	1.0 µF, 25 V, 10 %, 0603	X5R	298D105X9025M2T
AVX	06033D105MAT2A	1.0 µF, 25 V, 20 %, 0603	X5R	298D105X0025M2T
AVX	06034D106MAT2A	10 µF, 4 V, 20 %, 0603	X5R	T58MM106M6R3C0500
AVX	06034D226MAT2A	22 µF, 4 V, 20 %, 0603	X5R	T58MM226M6R3C0500
AVX	06034D475KAT2A	4.7 µF, 4 V, 10 %, 0603	X5R	T55J475M6R3C0500
AVX	06036C105KAT2A	1.0 µF, 6.3 V, 10 %, 0603	X7R	298D105X9010M2T
AVX	06036C225KAT2A	2.2 µF, 6.3 V, 10 %, 0603	X7R	298D225X96R3M2T
AVX	06036D105KAT2A	1.0 µF, 6.3 V, 10 %, 0603	X5R	298D105X9010M2T
AVX	06036D105MAT2A	1.0 µF, 6.3 V, 20 %, 0603	X5R	298D105X0010M2T
AVX	06036D106KAT2A	10 µF, 6.3 V, 10 %, 0603	X5R	T58MM106M6R3C0500
AVX	06036D106MAT2A	10 µF, 6.3 V, 20 %, 0603	X5R	T58MM106M6R3C0500
AVX	06036D225KAT2A	2.2 µF, 6.3 V, 10 %, 0603	X5R	298D225X96R3M2T
AVX	06036D225MAT2A	2.2 µF, 6.3 V, 20 %, 0603	X5R	298D225X06R3M2T
AVX	06036D226MAT2A	22 µF, 6.3 V, 20 %, 0603	X5R	T58MM226M6R3C0500
AVX	06036D475KAT2A	4.7 µF, 6.3 V, 10 %, 0603	X5R	T55J475M6R3C0500



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
AVX	06036D475MAT2A	4.7 µF, 6.3 V, 20 %, 0603	X5R	T55J475M6R3C0500
AVX	06036D476MAT2A	47 µF, 6.3 V, 20 %, 0603	X5R	T58M0476M6R3C0500
AVX	0603YC105JAT2A	1.0 µF, 16 V, 5 %, 0603	X7R	298D105X9016M2T
AVX	0603YC105KAT2A	1.0 µF, 16 V, 10 %, 0603	X7R	298D105X9016M2T
AVX	0603YC105KAT4A	1.0 µF, 16 V, 10 %, 0603	X7R	298D105X9016M2T
AVX	0603YC105MAT2A	1.0 µF, 16 V, 20 %, 0603	X7R	TMCJ1C105MTRF
AVX	0603YD105KAT2A	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
AVX	0603YD105KAT4A	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
AVX	0603YD105MAT2A	1.0 µF, 16 V, 20 %, 0603	X5R	TMCJ1C105MTRF
AVX	0603YD225KAT2A	2.2 µF, 16 V, 10 %, 0603	X5R	298D225X9016M2T
AVX	0603YD225MAT2A	2.2 µF, 16 V, 20 %, 0603	X5R	298D225X0016M2T
AVX	0603ZC105JAT2A	1.0 µF, 10 V, 5 %, 0603	X7R	298D105X9010M2T
AVX	0603ZC105KAT2A	1.0 µF, 10 V, 10 %, 0603	X7R	298D105X9010M2T
AVX	0603ZC225KAT2A	2.2 µF, 10 V, 10 %, 0603	X7R	TMCJ1A225MTRF
AVX	0603ZD105JAT2A	1.0 µF, 10 V, 5 %, 0603	X5R	298D105X9010M2T
AVX	0603ZD105KAT2A	1.0 µF, 10 V, 10 %, 0603	X5R	298D105X9010M2T
AVX	0603ZD105MAT2A	1.0 µF, 10 V, 20 %, 0603	X5R	298D105X0010M2T
AVX	0603ZD106KAT2A	10 µF, 10 V, 10 %, 0603	X5R	298D106X0010M2T
AVX	0603ZD106MAT2A	10 µF, 10 V, 20 %, 0603	X5R	298D106X0010M2T
AVX	0603ZD225KAT2A	2.2 µF, 10 V, 10 %, 0603	X5R	TMCJ1A225MTRF
AVX	0603ZD225MAT2A	2.2 µF, 10 V, 20 %, 0603	X5R	TMCJ1A225MTRF
AVX	0603ZD475KAT2A	4.7 µF, 10 V, 10 %, 0603	X5R	298D475X9010M2T
AVX	0603ZG105ZAT2A	1.0 µF, 10 V, +80 % / -20 %, 0603	Y5V	298D105X0010M2T
AVX	08053C105KAT2A	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
AVX	08053C225KAT2A	2.2 µF, 25 V, 10 %, 0805	X7R	298D225X0035P2T
AVX	08053C225MAT2A	2.2 µF, 25 V, 20 %, 0805	X7R	298D225X0035P2T
AVX	08053D105KAT2A	1.0 µF, 25 V, 10 %, 0805	X5R	TMCP1E105MTRF
AVX	08053D105MAT2A	1.0 µF, 25 V, 20 %, 0805	X5R	TMCP1E105MTRF
AVX	08053D225KAT2A	2.2 µF, 25 V, 10 %, 0805	X5R	298D225X0035P2T
AVX	08053D475KAT2A	4.7 µF, 25 V, 10 %, 0805	X5R	T58W0475M025C0500
AVX	08053D475MAT2A	4.7 µF, 25 V, 20 %, 0805	X5R	T58W0475M025C0500
AVX	08056C106KAT2A	10 µF, 6.3 V, 10 %, 0805	X7R	T55P106M6R3C0500
AVX	08056C106MAT2A	10 µF, 6.3 V, 20 %, 0805	X7R	T55P106M6R3C0500
AVX	08056D106KAT2A	10 µF, 6.3 V, 10 %, 0805	X5R	T55P106M6R3C0500
AVX	08056D106KAT4A	10 µF, 6.3 V, 10 %, 0805	X5R	T55P106M6R3C0500
AVX	08056D106MAT2A	10 µF, 6.3 V, 20 %, 0805	X5R	T55P106M6R3C0500
AVX	08056D225KAT2A	2.2 µF, 6.3 V, 10 %, 0805	X5R	TL8W9225K6R3C
AVX	08056D226KAT2A	22 µF, 6.3 V, 10 %, 0805	X5R	T58W9226M6R3C0500
AVX	08056D226MAT2A	22 µF, 6.3 V, 20 %, 0805	X5R	T58W9226M6R3C0500
AVX	08056D475KAT2A	4.7 µF, 6.3 V, 10 %, 0805	X5R	T55P475M6R3C0500
AVX	08056D475MAT2A	4.7 µF, 6.3 V, 20 %, 0805	X5R	T55P475M6R3C0500
AVX	08056D476MAT2A	47 µF, 6.3 V, 20 %, 0805	X5R	T58W9476M6R3C0300
AVX	0805YC105KAT2A	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
AVX	0805YC225KAT2A	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
AVX	0805YC475KAT2A	4.7 µF, 16 V, 10 %, 0805	X7R	TMCP1C475MTRF
AVX	0805YC475MAT2A	4.7 µF, 16 V, 20 %, 0805	X7R	TMCP1C475MTRF
AVX	0805YD105KAT2A	1.0 µF, 16 V, 10 %, 0805	X5R	TMCP1C105MTRF
AVX	0805YD105KAT4A	1.0 µF, 16 V, 10 %, 0805	X5R	TMCP1C105MTRF
AVX	0805YD106KAT2A	10 µF, 16 V, 10 %, 0805	X5R	298D106X9016R2T



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
AVX	0805YD106MAT2A	10 µF, 16 V, 20 %, 0805	X5R	298D106X0016R2T
AVX	0805YD225KAT2A	2.2 µF, 16 V, 10 %, 0805	X5R	TMCP1C225MTRF
AVX	0805YD475KAT2A	4.7 µF, 16 V, 10 %, 0805	X5R	TMCP1C475MTRF
AVX	0805YG225ZAT2A	2.2 µF, 16 V, +80 % / -20 %, 0805	Y5V	TMCP1C225MTRF
AVX	0805ZC105JAT2A	1.0 µF, 10 V, 5 %, 0805	X7R	TL8W9105K010C
AVX	0805ZC105KAT2A	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
AVX	0805ZC105KAT4A	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
AVX	0805ZC105MAT2A	1.0 µF, 10 V, 20 %, 0805	X7R	TL8W9105M010C
AVX	0805ZC106KAT2A	10 µF, 10 V, 10 %, 0805	X7R	TMCP1A106MTRF
AVX	0805ZC106KAT4A	10 µF, 10 V, 10 %, 0805	X7R	TMCP1A106MTRF
AVX	0805ZC225KAT2A	2.2 µF, 10 V, 10 %, 0805	X7R	TMCP1A225MTRF
AVX	0805ZC475KAT2A	4.7 µF, 10 V, 10 %, 0805	X7R	T55P475M010C0500
AVX	0805ZC475MAT2A	4.7 µF, 10 V, 20 %, 0805	X7R	T55P475M010C0500
AVX	0805ZD106KAT2A	10 µF, 10 V, 10 %, 0805	X5R	TMCP1A106MTRF
AVX	0805ZD106MAT2A	10 µF, 10 V, 20 %, 0805	X5R	TMCP1A106MTRF
AVX	0805ZD225KAT2A	2.2 µF, 10 V, 10 %, 0805	X5R	TMCP1A225MTRF
AVX	0805ZD225MAT2A	2.2 µF, 10 V, 20 %, 0805	X5R	TMCP1A225MTRF
AVX	0805ZD226MAT2A	22 µF, 10 V, 20 %, 0805	X5R	TL8W9226M010C
AVX	0805ZD475KAT2A	4.7 µF, 10 V, 10 %, 0805	X5R	T55P475M010C0500
AVX	0805ZD475MAT2A	4.7 µF, 10 V, 20 %, 0805	X5R	T55P475M010C0500
AVX	0805ZG475ZAT2A	4.7 µF, 10 V, +80 % / -20 %, 0805	Y5V	T55P475M010C0500
AVX	12063C225KAT2A	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
AVX	12063C225KAZ2A	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
AVX	12063C475KAT2A	4.7 µF, 25 V, 10 %, 1206	X7R	293D475X9025A2TE3
AVX	12063C475MAT2A	4.7 µF, 25 V, 20 %, 1206	X7R	293D475X0025A2TE3
AVX	12063D225KAT2A	2.2 µF, 25 V, 10 %, 1206	X5R	293D225X9025A2TE3
AVX	12063D475KAT2A	4.7 µF, 25 V, 10 %, 1206	X5R	293D475X9025A2TE3
AVX	12063D475MAT2A	4.7 µF, 25 V, 20 %, 1206	X5R	293D475X0025A2TE3
AVX	12063G225ZAT2A	2.2 µF, 25 V, +80 % / -20 %, 1206	Y5V	293D225X0025A2TE3
AVX	12066C106KAT2A	10 µF, 6.3 V, 10 %, 1206	X7R	T55A106M6R3C0500
AVX	12066C226KAT2A	22 µF, 6.3 V, 10 %, 1206	X7R	T55A226M6R3C0500
AVX	12066C226MAT2A	22 µF, 6.3 V, 20 %, 1206	X7R	T55A226M6R3C0500
AVX	12066D106KAT2A	10 µF, 6.3 V, 10 %, 1206	X5R	T55A106M6R3C0500
AVX	12066D106MAT2A	10 µF, 6.3 V, 20 %, 1206	X5R	T55A106M6R3C0500
AVX	12066D107MAT2A	100 µF, 6.3 V, 20 %, 1206	X5R	T55A107M6R3C0200
AVX	12066D226KAT2A	22 µF, 6.3 V, 10 %, 1206	X5R	T55A226M6R3C0500
AVX	12066D226MAT2A	22 µF, 6.3 V, 20 %, 1206	X5R	T55A226M6R3C0500
AVX	12066D476MAT2A	47 µF, 6.3 V, 20 %, 1206	X5R	T55A476M6R3C0500
AVX	1206YC105JAT2A	1.0 µF, 16 V, 5 %, 1206	X7R	TMCSA1C105KTRF
AVX	1206YC105KAT2A	1.0 µF, 16 V, 10 %, 1206	X7R	TMCSA1C105KTRF
AVX	1206YC105KAT4A	1.0 µF, 16 V, 10 %, 1206	X7R	TMCSA1C105KTRF
AVX	1206YC105MAT2A	1.0 µF, 16 V, 20 %, 1206	X7R	TMCSA1C105MTRF
AVX	1206YC106KAT2A	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
AVX	1206YC106KAT4A	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
AVX	1206YC106MAT2A	10 µF, 16 V, 20 %, 1206	X7R	293D106X0016A2TE3
AVX	1206YC225KAT2A	2.2 µF, 16 V, 10 %, 1206	X7R	293D225X9016A2TE3
AVX	1206YC475KAT2A	4.7 µF, 16 V, 10 %, 1206	X7R	293D475X9016A2TE3
AVX	1206YD106KAT2A	10 µF, 16 V, 10 %, 1206	X5R	293D106X9016A2TE3
AVX	1206YD106MAT2A	10 µF, 16 V, 20 %, 1206	X5R	293D106X0016A2TE3



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
AVX	1206YD225KAT2A	2.2 µF, 16 V, 10 %, 1206	X5R	293D225X9016A2TE3
AVX	1206YD475KAT2A	4.7 µF, 16 V, 10 %, 1206	X5R	293D475X9016A2TE3
AVX	1206YD475MAT2A	4.7 µF, 16 V, 20 %, 1206	X5R	293D475X0016A2TE3
AVX	1206YG106ZAT2A	10 µF, 16 V, +80 % / -20 %, 1206	Y5V	293D106X0016A2TE3
AVX	1206YG225ZAT2A	2.2 µF, 16 V, +80 % / -20 %, 1206	Y5V	293D225X0016A2TE3
AVX	1206YG475ZAT2A	4.7 µF, 16 V, +80 % / -20 %, 1206	Y5V	293D475X0016A2TE3
AVX	1206ZC106KAT2A	10 µF, 10 V, 10 %, 1206	X7R	T55A106M010C0500
AVX	1206ZC225JAT2A	2.2 µF, 10 V, 5 %, 1206	X7R	293D225X5010A2TE3
AVX	1206ZC225KAT2A	2.2 µF, 10 V, 10 %, 1206	X7R	293D225X9010A2TE3
AVX	1206ZC225MAT2A	2.2 µF, 10 V, 20 %, 1206	X7R	293D225X0010A2TE3
AVX	1206ZC226KAT2A	22 µF, 10 V, 10 %, 1206	X7R	T55A226M010C0500
AVX	1206ZC475KAT2A	4.7 µF, 10 V, 10 %, 1206	X7R	T55A475M010C0500
AVX	1206ZD106KAT2A	10 µF, 10 V, 10 %, 1206	X5R	T55A106M010C0500
AVX	1206ZD106MAT2A	10 µF, 10 V, 20 %, 1206	X5R	T55A106M010C0500
AVX	1206ZD226KAT2A	22 µF, 10 V, 10 %, 1206	X5R	T55A226M010C0500
AVX	1206ZD226MAT2A	22 µF, 10 V, 20 %, 1206	X5R	T55A226M010C0500
AVX	1206ZD475KAT2A	4.7 µF, 10 V, 10 %, 1206	X5R	T55A475M010C0500
AVX	1206ZD475MAT2A	4.7 µF, 10 V, 20 %, 1206	X5R	T55A475M010C0500
AVX	1206ZG106ZAT2A	10 µF, 10 V, +80 % / -20 %, 1206	Y5V	T55A106M010C0500
AVX	1206ZG226ZAT2A	22 µF, 10 V, +80 % / -20 %, 1206	Y5V	T55A226M010C0500
AVX	12103C105KAT2A	1.0 µF, 25 V, 10 %, 1210	X7R	293D105X9025B2TE3
AVX	12103C105MAT2A	1.0 µF, 25 V, 20 %, 1210	X7R	293D105X0025B2TE3
AVX	12103C106KAT2A	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
AVX	12103C106KAZ2A	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
AVX	12103C106MAT2A	10 µF, 25 V, 20 %, 1210	X7R	T55B106M025C0150
AVX	12103C226KAT2A	22 µF, 25 V, 10 %, 1210	X7R	T58BB226M025C0150
AVX	12103C475KAT2A	4.7 µF, 25 V, 10 %, 1210	X7R	293D475X9025B2TE3
AVX	12103C475MAT2A	4.7 µF, 25 V, 20 %, 1210	X7R	293D475X0025B2TE3
AVX	12103D106KAT2A	10 µF, 25 V, 10 %, 1210	X5R	T55B106M025C0150
AVX	12103D106MAT2A	10 µF, 25 V, 20 %, 1210	X5R	T55B106M025C0150
AVX	12103D226KAT2A	22 µF, 25 V, 10 %, 1210	X5R	T58BB226M025C0150
AVX	12103D226MAT2A	22 µF, 25 V, 20 %, 1210	X5R	T58BB226M025C0150
AVX	12103G105ZAT2A	1.0 µF, 25 V, +80 % / -20 %, 1210	Y5V	293D105X0025B2TE3
AVX	12103G106ZAT2A	10 µF, 25 V, +80 % / -20 %, 1210	Y5V	T55B106M025C0150
AVX	12105C105JAT2A	1.0 µF, 50 V, 5 %, 1210	X7R	293D105X5050B2TE3
AVX	12105C105KAT2A	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
AVX	12105C105KAZ2A	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
AVX	12105D105KAT2A	1.0 µF, 50 V, 10 %, 1210	X5R	293D105X9050B2TE3
AVX	12106C476MAT2A	47 µF, 6.3 V, 20 %, 1210	X7R	T55B476M6R3C0150
AVX	12106D107MAT2A	100 µF, 6.3 V, 20 %, 1210	X5R	T55B107M6R3C0100
AVX	12106D226KAT2A	22 µF, 6.3 V, 10 %, 1210	X5R	T55B226M6R3C0150
AVX	12106D226MAT2A	22 µF, 6.3 V, 20 %, 1210	X5R	T55B226M6R3C0150
AVX	12106D476KAT2A	47 µF, 6.3 V, 10 %, 1210	X5R	T55B476M6R3C0150
AVX	12106D476MAT2A	47 µF, 6.3 V, 20 %, 1210	X5R	T55B476M6R3C0150
AVX	1210YC105KAT2A	1.0 µF, 16 V, 10 %, 1210	X7R	293D105X9020B2TE3
AVX	1210YC106KAT2A	10 µF, 16 V, 10 %, 1210	X7R	T55B106M016C0200
AVX	1210YC226KAT2A	22 µF, 16 V, 10 %, 1210	X7R	T55B226M016C0150
AVX	1210YC226MAT2A	22 µF, 16 V, 20 %, 1210	X7R	T55B226M016C0150
AVX	1210YC475JAT2A	4.7 µF, 16 V, 5 %, 1210	X7R	293D475X5016B2TE3



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
AVX	1210YC475KAT2A	4.7 µF, 16 V, 10 %, 1210	X7R	293D475X9016B2TE3
AVX	1210YC475MAT2A	4.7 µF, 16 V, 20 %, 1210	X7R	293D475X0016B2TE3
AVX	1210YD106KAT2A	10 µF, 16 V, 10 %, 1210	X5R	T55B106M016C0200
AVX	1210YD106MAT2A	10 µF, 16 V, 20 %, 1210	X5R	T55B106M016C0200
AVX	1210YD226KAT2A	22 µF, 16 V, 10 %, 1210	X5R	T55B226M016C0150
AVX	1210YD226MAT2A	22 µF, 16 V, 20 %, 1210	X5R	T55B226M016C0150
AVX	1210YG106ZAT2A	10 µF, 16 V, +80 % / -20 %, 1210	Y5V	T55B106M016C0200
AVX	1210ZC106KAT2A	10 µF, 10 V, 10 %, 1210	X7R	293D106X9010B2TE3
AVX	1210ZC106MAT2A	10 µF, 10 V, 20 %, 1210	X7R	293D106X0010B2TE3
AVX	1210ZC226KAT2A	22 µF, 10 V, 10 %, 1210	X7R	T55B226M010C0300
AVX	1210ZC226MAT2A	22 µF, 10 V, 20 %, 1210	X7R	T55B226M010C0300
AVX	1210ZC475KAT2A	4.7 µF, 10 V, 10 %, 1210	X7R	293D475X9010B2TE3
AVX	1210ZC476KAT2A	47 µF, 10 V, 10 %, 1210	X7R	T55B476M010C0150
AVX	1210ZD106KAT2A	10 µF, 10 V, 10 %, 1210	X5R	293D106X9010B2TE3
AVX	1210ZD106MAT2A	10 µF, 10 V, 20 %, 1210	X5R	293D106X0010B2TE3
AVX	1210ZD226KAT2A	22 µF, 10 V, 10 %, 1210	X5R	T55B226M010C0300
AVX	1210ZD226MAT2A	22 µF, 10 V, 20 %, 1210	X5R	T55B226M010C0300
AVX	1210ZD476KAT2A	47 µF, 10 V, 10 %, 1210	X5R	T55B476M010C0150
AVX	1210ZG226ZAT2A	22 µF, 10 V, +80 % / -20 %, 1210	Y5V	T55B226M010C0300
KEMET	C0402C105K4PACTU	1.0 µF, 16 V, 10 %, 0402	X5R	298D105X0016K2T
KEMET	C0402C105K8PACTU	1.0 µF, 10 V, 10 %, 0402	X5R	298D105X0010K2T
KEMET	C0402C105K9PACTU	1.0 µF, 6.3 V, 10 %, 0402	X5R	298D105X06R3K2T
KEMET	C0402C105M4PACTU	1.0 µF, 16 V, 20 %, 0402	X5R	298D105X0016K2T
KEMET	C0402C105M8PACTU	1.0 µF, 10 V, 20 %, 0402	X5R	298D105X0010K2T
KEMET	C0402C105M9PACTU	1.0 µF, 6.3 V, 20 %, 0402	X5R	298D105X06R3K2T
KEMET	C0402C106M7PACTU	10 µF, 4 V, 20 %, 0402	X5R	298W106X06R3K2T
KEMET	C0402C106M9PACTU	10 µF, 6.3 V, 20 %, 0402	X5R	298W106X06R3K2T
KEMET	C0402C225K9PACTU	2.2 µF, 6.3 V, 10 %, 0402	X5R	298D225X06R3K2T
KEMET	C0402C225M8PACTU	2.2 µF, 10 V, 20 %, 0402	X5R	298D225X0010K2T
KEMET	C0402C225M9PACTU	2.2 µF, 6.3 V, 20 %, 0402	X5R	298D225X06R3K2T
KEMET	C0402C475M7PACTU	4.7 µF, 4 V, 20 %, 0402	X5R	298D475X0004K2T
KEMET	C0402C475M9PACTU	4.7 µF, 6.3 V, 20 %, 0402	X5R	298W475X0010K2T
KEMET	C0603C105K3PACTU	1.0 µF, 25 V, 10 %, 0603	X5R	298D105X9025M2T
KEMET	C0603C105K3RACTU	1.0 µF, 25 V, 10 %, 0603	X7R	298D105X9025M2T
KEMET	C0603C105K4PACTU	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
KEMET	C0603C105K4PALT2K0TU	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
KEMET	C0603C105K4PALTU	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
KEMET	C0603C105K4RACTU	1.0 µF, 16 V, 10 %, 0603	X7R	298D105X9016M2T
KEMET	C0603C105K8PAC7411	1.0 µF, 10 V, 10 %, 0603	X5R	298D105X9010M2T
KEMET	C0603C105K8PACTU	1.0 µF, 10 V, 10 %, 0603	X5R	298D105X9010M2T
KEMET	C0603C105K8RACTU	1.0 µF, 10 V, 10 %, 0603	X7R	298D105X9010M2T
KEMET	C0603C105K9PAC7411	1.0 µF, 6.3 V, 10 %, 0603	X5R	298D105X9010M2T
KEMET	C0603C105K9PACTU	1.0 µF, 6.3 V, 10 %, 0603	X5R	298D105X9010M2T
KEMET	C0603C105K9RACTU	1.0 µF, 6.3 V, 10 %, 0603	X7R	298D105X9010M2T
KEMET	C0603C105M3PACTU	1.0 µF, 25 V, 20 %, 0603	X5R	298D105X0025M2T
KEMET	C0603C105M3RACTU	1.0 µF, 25 V, 20 %, 0603	X7R	298D105X0025M2T
KEMET	C0603C105M4PACTU	1.0 µF, 16 V, 20 %, 0603	X5R	TMCJ1C105MTRE
KEMET	C0603C105M4PALTU	1.0 µF, 16 V, 20 %, 0603	X5R	TMCJ1C105MTRE
KEMET	C0603C105M4RACTU	1.0 µF, 16 V, 20 %, 0603	X7R	TMCJ1C105MTRE



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C0603C105M8PACTU	1.0 µF, 10 V, 20 %, 0603	X5R	298D105X0010M2T
KEMET	C0603C105Z8VACTU	1.0 µF, 10 V, +80 % / -20 %, 0603	Y5V	298D105X0010M2T
KEMET	C0603C105Z9VACTU	1.0 µF, 6.3 V, +80 % / -20 %, 0603	Y5V	298D105X0010M2T
KEMET	C0603C106K9PACTU	10 µF, 6.3 V, 10 %, 0603	X5R	T58MM106M6R3C0500
KEMET	C0603C106M7PACTU	10 µF, 4 V, 20 %, 0603	X5R	T58MM106M6R3C0500
KEMET	C0603C106M9PACTU	10 µF, 6.3 V, 20 %, 0603	X5R	T58MM106M6R3C0500
KEMET	C0603C225K4PACTU	2.2 µF, 16 V, 10 %, 0603	X5R	298D225X9016M2T
KEMET	C0603C225K8PACTU	2.2 µF, 10 V, 10 %, 0603	X5R	TMCJ1A225MTRF
KEMET	C0603C225K8RACTU	2.2 µF, 10 V, 10 %, 0603	X7R	TMCJ1A225MTRF
KEMET	C0603C225K9PACTU	2.2 µF, 6.3 V, 10 %, 0603	X5R	298D225X96R3M2T
KEMET	C0603C225K9RACTU	2.2 µF, 6.3 V, 10 %, 0603	X7R	298D225X96R3M2T
KEMET	C0603C225M4PACTU	2.2 µF, 16 V, 20 %, 0603	X5R	298D225X0016M2T
KEMET	C0603C225M8PACTU	2.2 µF, 10 V, 20 %, 0603	X5R	TMCJ1A225MTRF
KEMET	C0603C225M9PACTU	2.2 µF, 6.3 V, 20 %, 0603	X5R	298D225X06R3M2T
KEMET	C0603C335M9PACTU	3.3 µF, 6.3 V, 20 %, 0603	X5R	T55J335M6R3C0500
KEMET	C0603C475K8PACTU	4.7 µF, 10 V, 10 %, 0603	X5R	298D475X9010M2T
KEMET	C0603C475K9PACTU	4.7 µF, 6.3 V, 10 %, 0603	X5R	T55J475M6R3C0500
KEMET	C0603C475M8PACTU	4.7 µF, 10 V, 20 %, 0603	X5R	298D475X0010M2T
KEMET	C0603C475M9PACTU	4.7 µF, 6.3 V, 20 %, 0603	X5R	T55J475M6R3C0500
KEMET	C0805C105J3RACAUTO	1.0 µF, 25 V, 5 %, 0805	X7R	TP8R105K025C
KEMET	C0805C105J3RACTU	1.0 µF, 25 V, 5 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805C105J4RACTU	1.0 µF, 16 V, 5 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805C105J8NACAUTO	1.0 µF, 10 V, 5 %, 0805	X8L	TP8W105M020C
KEMET	C0805C105J8RACTU	1.0 µF, 10 V, 5 %, 0805	X7R	TL8W9105K010C
KEMET	C0805C105J8RALTU	1.0 µF, 10 V, 5 %, 0805	X7R	TL8W9105K010C
KEMET	C0805C105K3PACTU	1.0 µF, 25 V, 10 %, 0805	X5R	TMCP1E105MTRF
KEMET	C0805C105K3RAC3193	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805C105K3RACAUTO	1.0 µF, 25 V, 10 %, 0805	X7R	TP8R105K025C
KEMET	C0805C105K3RACTU	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805C105K3RALTU	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805C105K4PACTU	1.0 µF, 16 V, 10 %, 0805	X5R	TMCP1C105MTRF
KEMET	C0805C105K4RAC7210	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805C105K4RACAUTO	1.0 µF, 16 V, 10 %, 0805	X7R	TP8W105M020C
KEMET	C0805C105K4RACTU	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805C105K4RAL/500	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805C105K4RALTU	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805C105K5RACTU	1.0 µF, 50 V, 10 %, 0805	X7R	298D105X0050P2T
KEMET	C0805C105K8PACTU	1.0 µF, 10 V, 10 %, 0805	X5R	TL8W9105K010C
KEMET	C0805C105K8RAC3124	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
KEMET	C0805C105K8RACAUTO	1.0 µF, 10 V, 10 %, 0805	X7R	TP8W105M020C
KEMET	C0805C105K8RACTU	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
KEMET	C0805C105K8RALTU	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
KEMET	C0805C105K9PACTU	1.0 µF, 6.3 V, 10 %, 0805	X5R	TL8W9105K010C
KEMET	C0805C105M3PACTU	1.0 µF, 25 V, 20 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805C105M3VACTU	1.0 µF, 25 V, 20 %, 0805	Y5V	TMCP1E105MTRF
KEMET	C0805C105M4RACTU	1.0 µF, 16 V, 20 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805C105M4VACTU	1.0 µF, 16 V, 20 %, 0805	Y5V	TMCP1C105MTRF
KEMET	C0805C105M5RACTU	1.0 µF, 50 V, 20 %, 0805	X7R	298D105X0050P2T
KEMET	C0805C105M8RACTU	1.0 µF, 10 V, 20 %, 0805	X7R	TL8W9105M010C



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C0805C105Z3VACTU	1.0 µF, 25 V, +80 % / -20 %, 0805	Y5V	TMCP1E105MTRF
KEMET	C0805C105Z4VACTU	1.0 µF, 16 V, +80 % / -20 %, 0805	Y5V	TMCP1C105MTRF
KEMET	C0805C106J8RACAUTO	10 µF, 10 V, 5 %, 0805	X7R	TP8R106K010C
KEMET	C0805C106K4PACTU	10 µF, 16 V, 10 %, 0805	X5R	298D106X9016R2T
KEMET	C0805C106K8PAC7210	10 µF, 10 V, 10 %, 0805	X5R	TMCP1A106MTRF
KEMET	C0805C106K8PACTU	10 µF, 10 V, 10 %, 0805	X5R	TMCP1A106MTRF
KEMET	C0805C106K8RAC3124	10 µF, 10 V, 10 %, 0805	X7R	TMCP1A106MTRF
KEMET	C0805C106K8RACAUTO	10 µF, 10 V, 10 %, 0805	X7R	TP8R106K010C
KEMET	C0805C106K8RACTU	10 µF, 10 V, 10 %, 0805	X7R	TMCP1A106MTRF
KEMET	C0805C106K9PACTU	10 µF, 6.3 V, 10 %, 0805	X5R	T55P106M6R3C0500
KEMET	C0805C106K9RACAUTO	10 µF, 6.3 V, 10 %, 0805	X7R	TP8R106K010C
KEMET	C0805C106K9RACTU	10 µF, 6.3 V, 10 %, 0805	X7R	T55P106M6R3C0500
KEMET	C0805C106M4PACTU	10 µF, 16 V, 20 %, 0805	X5R	298D106X0016R2T
KEMET	C0805C106M8PACTU	10 µF, 10 V, 20 %, 0805	X5R	TMCP1A106MTRF
KEMET	C0805C106M8RACTU	10 µF, 10 V, 20 %, 0805	X7R	TMCP1A106MTRF
KEMET	C0805C106M9PACTU	10 µF, 6.3 V, 20 %, 0805	X5R	T55P106M6R3C0500
KEMET	C0805C106M9RACTU	10 µF, 6.3 V, 20 %, 0805	X7R	T55P106M6R3C0500
KEMET	C0805C106Z8VACTU	10 µF, 10 V, +80 % / -20 %, 0805	Y5V	TMCP1A106MTRF
KEMET	C0805C106Z9VACTU	10 µF, 6.3 V, +80 % / -20 %, 0805	Y5V	T55P106M6R3C0500
KEMET	C0805C155K4RACTU	1.5 µF, 16 V, 10 %, 0805	X7R	TMCP1C155MTRF
KEMET	C0805C155K8PACTU	1.5 µF, 10 V, 10 %, 0805	X5R	TMCP1A155MTRF
KEMET	C0805C155K8RACTU	1.5 µF, 10 V, 10 %, 0805	X7R	TMCP1A155MTRF
KEMET	C0805C155K9PACTU	1.5 µF, 6.3 V, 10 %, 0805	X5R	TMCP1A155MTRF
KEMET	C0805C225J4RALTU	2.2 µF, 16 V, 5 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805C225K3PACTU	2.2 µF, 25 V, 10 %, 0805	X5R	298D225X0035P2T
KEMET	C0805C225K3RACTU	2.2 µF, 25 V, 10 %, 0805	X7R	298D225X0035P2T
KEMET	C0805C225K4PACTU	2.2 µF, 16 V, 10 %, 0805	X5R	TMCP1C225MTRF
KEMET	C0805C225K4PALTU	2.2 µF, 16 V, 10 %, 0805	X5R	TMCP1C225MTRF
KEMET	C0805C225K4RAC3123	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805C225K4RAC3124	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805C225K4RACTU	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805C225K4RALTU	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805C225K8PACTU	2.2 µF, 10 V, 10 %, 0805	X5R	TMCP1A225MTRF
KEMET	C0805C225K8RACTU	2.2 µF, 10 V, 10 %, 0805	X7R	TMCP1A225MTRF
KEMET	C0805C225K8RAL/500	2.2 µF, 10 V, 10 %, 0805	X7R	TMCP1A225MTRF
KEMET	C0805C225K8RALTU	2.2 µF, 10 V, 10 %, 0805	X7R	TMCP1A225MTRF
KEMET	C0805C225K9PACTU	2.2 µF, 6.3 V, 10 %, 0805	X5R	TL8W9225K6R3C
KEMET	C0805C225K9RACTU	2.2 µF, 6.3 V, 10 %, 0805	X7R	TL8W9225K6R3C
KEMET	C0805C225M4RACTU	2.2 µF, 16 V, 20 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805C225M8RACTU	2.2 µF, 10 V, 20 %, 0805	X7R	TMCP1A225MTRF
KEMET	C0805C225Z4VACTU	2.2 µF, 16 V, +80 % / -20 %, 0805	Y5V	TMCP1C225MTRF
KEMET	C0805C226K9PACTU	22 µF, 6.3 V, 10 %, 0805	X5R	T58W9226M6R3C0500
KEMET	C0805C226M8PACTU	22 µF, 10 V, 20 %, 0805	X5R	TL8W9226M010C
KEMET	C0805C226M9PACTU	22 µF, 6.3 V, 20 %, 0805	X5R	T58W9226M6R3C0500
KEMET	C0805C335K4PACTU	3.3 µF, 16 V, 10 %, 0805	X5R	TMCP1C335MTRF
KEMET	C0805C335K8PACTU	3.3 µF, 10 V, 10 %, 0805	X5R	T55P335M010C0500
KEMET	C0805C335K9PACTU	3.3 µF, 6.3 V, 10 %, 0805	X5R	T55P335M6R3C0500
KEMET	C0805C335M9PACTU	3.3 µF, 6.3 V, 20 %, 0805	X5R	T55P335M6R3C0500
KEMET	C0805C475K3PACTU	4.7 µF, 25 V, 10 %, 0805	X5R	T58W0475M025C0500



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C0805C475K4PACTU	4.7 µF, 16 V, 10 %, 0805	X5R	TMCP1C475MTRF
KEMET	C0805C475K4RACAUTO	4.7 µF, 16 V, 10 %, 0805	X7R	TP8P475K020C
KEMET	C0805C475K4RACTU	4.7 µF, 16 V, 10 %, 0805	X7R	TMCP1C475MTRF
KEMET	C0805C475K8PACTU	4.7 µF, 10 V, 10 %, 0805	X5R	T55P475M010C0500
KEMET	C0805C475K8PALTU	4.7 µF, 10 V, 10 %, 0805	X5R	T55P475M010C0500
KEMET	C0805C475K8RACTU	4.7 µF, 10 V, 10 %, 0805	X7R	T55P475M010C0500
KEMET	C0805C475K9PACTU	4.7 µF, 6.3 V, 10 %, 0805	X5R	T55P475M6R3C0500
KEMET	C0805C475K9RACTU	4.7 µF, 6.3 V, 10 %, 0805	X7R	T55P475M6R3C0500
KEMET	C0805C475M3PACTU	4.7 µF, 25 V, 20 %, 0805	X5R	T58W0475M025C0500
KEMET	C0805C475M4PACTU	4.7 µF, 16 V, 20 %, 0805	X5R	TMCP1C475MTRF
KEMET	C0805C475M4RACTU	4.7 µF, 16 V, 20 %, 0805	X7R	TMCP1C475MTRF
KEMET	C0805C475M8PACTU	4.7 µF, 10 V, 20 %, 0805	X5R	T55P475M010C0500
KEMET	C0805C475M9PALTU	4.7 µF, 6.3 V, 20 %, 0805	X5R	T55P475M6R3C0500
KEMET	C0805C475Z8VACTU	4.7 µF, 10 V, +80 % / -20 %, 0805	Y5V	T55P475M010C0500
KEMET	C0805C476M7PACTU	47 µF, 4 V, 20 %, 0805	X5R	TMCP0G476MTRF
KEMET	C0805C476M9PACTU	47 µF, 6.3 V, 20 %, 0805	X5R	T58W9476M6R3C0300
KEMET	C0805C685K9PACTU	6.8 µF, 6.3 V, 10 %, 0805	X5R	T55P685M6R3C0500
KEMET	C0805T105K3RAC713675	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RAL7136	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RAL7571	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RALT500	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RALTM	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RALTU	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RCLTM	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RCLTM7136	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K3RCLTU	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805T105K4RACTU	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805T105K4RCLTU	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805T105K8RCL7013	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
KEMET	C0805T225K4RALTU	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805T225K4RCLTU	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
KEMET	C0805T225K8RALTU	2.2 µF, 10 V, 10 %, 0805	X7R	TMCP1A225MTRF
KEMET	C0805T225K8RBL	2.2 µF, 10 V, 10 %, 0805	X7R	TMCP1A225MTRF
KEMET	C0805X105K3RACTU	1.0 µF, 25 V, 10 %, 0805	X7R	TMCP1E105MTRF
KEMET	C0805X105K4RACTU	1.0 µF, 16 V, 10 %, 0805	X7R	TMCP1C105MTRF
KEMET	C0805X105K8RACTU	1.0 µF, 10 V, 10 %, 0805	X7R	TL8W9105K010C
KEMET	C0805X225K4RACTU	2.2 µF, 16 V, 10 %, 0805	X7R	TMCP1C225MTRF
TDK	C1005X5R0J106M050BC	10 µF, 6.3 V, 20 %, 0402	X5R	298W106X06R3K2T
KEMET	C1206C105J3RACTU	1.0 µF, 25 V, 5 %, 1206	X7R	293D105X5025A2TE3
KEMET	C1206C105J4RACTU	1.0 µF, 16 V, 5 %, 1206	X7R	TMCSA1C105KTRF
KEMET	C1206C105K3NACTU	1.0 µF, 25 V, 10 %, 1206	X8L	293D105X9025A2TE3
KEMET	C1206C105K3PACTU	1.0 µF, 25 V, 10 %, 1206	X5R	293D105X9025A2TE3
KEMET	C1206C105K3RACAUTO	1.0 µF, 25 V, 10 %, 1206	X7R	TP3A105K025C7600AS
KEMET	C1206C105K3RACTU	1.0 µF, 25 V, 10 %, 1206	X7R	293D105X9025A2TE3
KEMET	C1206C105K3RALTU	1.0 µF, 25 V, 10 %, 1206	X7R	293D105X9025A2TE3
KEMET	C1206C105K4RAC3070	1.0 µF, 16 V, 10 %, 1206	X7R	TMCSA1C105KTRF
KEMET	C1206C105K4RAC3124	1.0 µF, 16 V, 10 %, 1206	X7R	TMCSA1C105KTRF
KEMET	C1206C105K4RAC7210	1.0 µF, 16 V, 10 %, 1206	X7R	TMCSA1C105KTRF
KEMET	C1206C105K4RACTU	1.0 µF, 16 V, 10 %, 1206	X7R	TMCSA1C105KTRF



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C1206C105M3RACAUTO	1.0 µF, 25 V, 20 %, 1206	X7R	TP3A105M025C7600AS
KEMET	C1206C105M3RACTU	1.0 µF, 25 V, 20 %, 1206	X7R	293D105X0025A2TE3
KEMET	C1206C105M3VACTU	1.0 µF, 25 V, 20 %, 1206	Y5V	293D105X0025A2TE3
KEMET	C1206C105M4RAC3124	1.0 µF, 16 V, 20 %, 1206	X7R	TMCSA1C105MTRF
KEMET	C1206C105M4RACTU	1.0 µF, 16 V, 20 %, 1206	X7R	TMCSA1C105MTRF
KEMET	C1206C105M4VACTU	1.0 µF, 16 V, 20 %, 1206	Y5V	TMCSA1C105MTRF
KEMET	C1206C105Z3VACTU	1.0 µF, 25 V, +80 % / -20 %, 1206	Y5V	293D105X0025A2TE3
KEMET	C1206C105Z4VACTU	1.0 µF, 16 V, +80 % / -20 %, 1206	Y5V	TMCSA1C105MTRF
KEMET	C1206C106J4RACTU	10 µF, 16 V, 5 %, 1206	X7R	293D106X5016A2TE3
KEMET	C1206C106K4PACTU	10 µF, 16 V, 10 %, 1206	X5R	293D106X9016A2TE3
KEMET	C1206C106K4RAC3124	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206C106K4RAC7210	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206C106K4RACAUTO	10 µF, 16 V, 10 %, 1206	X7R	TP3A106K016C3000AS
KEMET	C1206C106K4RACAUTO72	10 µF, 16 V, 10 %, 1206	X7R	TP3A106K016C3000AS
KEMET	C1206C106K4RACTU	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206C106K4RAL/500	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206C106K4RALTU	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206C106K8PACTU	10 µF, 10 V, 10 %, 1206	X5R	T55A106M010C0500
KEMET	C1206C106K8RACAUTO	10 µF, 10 V, 10 %, 1206	X7R	TP3A106K010C3000AS
KEMET	C1206C106K8RACTU	10 µF, 10 V, 10 %, 1206	X7R	T55A106M010C0500
KEMET	C1206C106K8RALTU	10 µF, 10 V, 10 %, 1206	X7R	T55A106M010C0500
KEMET	C1206C106K9PACTU	10 µF, 6.3 V, 10 %, 1206	X5R	T55A106M6R3C0500
KEMET	C1206C106K9RACTU	10 µF, 6.3 V, 10 %, 1206	X7R	T55A106M6R3C0500
KEMET	C1206C106M4PACTU	10 µF, 16 V, 20 %, 1206	X5R	293D106X0016A2TE3
KEMET	C1206C106M4RACAUTO	10 µF, 16 V, 20 %, 1206	X7R	TP3A106M016C3000AS
KEMET	C1206C106M4RACTU	10 µF, 16 V, 20 %, 1206	X7R	293D106X0016A2TE3
KEMET	C1206C106M4RALTU	10 µF, 16 V, 20 %, 1206	X7R	293D106X0016A2TE3
KEMET	C1206C106M8PACTU	10 µF, 10 V, 20 %, 1206	X5R	T55A106M010C0500
KEMET	C1206C106M9PACTU	10 µF, 6.3 V, 20 %, 1206	X5R	T55A106M6R3C0500
KEMET	C1206C106M9RACTU	10 µF, 6.3 V, 20 %, 1206	X7R	T55A106M6R3C0500
KEMET	C1206C106Z8VACTU	10 µF, 10 V, +80 % / -20 %, 1206	Y5V	T55A106M010C0500
KEMET	C1206C107M9PAC7637	100 µF, 6.3 V, 20 %, 1206	X5R	T55A107M6R3C0200
KEMET	C1206C107M9PACTU	100 µF, 6.3 V, 20 %, 1206	X5R	T55A107M6R3C0200
KEMET	C1206C155J3RACTU	1.5 µF, 25 V, 5 %, 1206	X7R	293D155X5025A2TE3
KEMET	C1206C155J3RALTU	1.5 µF, 25 V, 5 %, 1206	X7R	293D155X5025A2TE3
KEMET	C1206C155K3RACTU	1.5 µF, 25 V, 10 %, 1206	X7R	293D155X9025A2TE3
KEMET	C1206C155K4RACTU	1.5 µF, 16 V, 10 %, 1206	X7R	293D155X9016A2TE3
KEMET	C1206C225J3RACTU	2.2 µF, 25 V, 5 %, 1206	X7R	293D225X5025A2TE3
KEMET	C1206C225K3PACTU	2.2 µF, 25 V, 10 %, 1206	X5R	293D225X9025A2TE3
KEMET	C1206C225K3RACTU	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
KEMET	C1206C225K3RALTM	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
KEMET	C1206C225K3RALTU	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
KEMET	C1206C225K4PACTU	2.2 µF, 16 V, 10 %, 1206	X5R	293D225X9016A2TE3
KEMET	C1206C225K4RAC3070	2.2 µF, 16 V, 10 %, 1206	X7R	293D225X9016A2TE3
KEMET	C1206C225K4RACTU	2.2 µF, 16 V, 10 %, 1206	X7R	293D225X9016A2TE3
KEMET	C1206C225K8RACAUTO	2.2 µF, 10 V, 10 %, 1206	X7R	TP3A225K010C6300AS
KEMET	C1206C225K8RACTU	2.2 µF, 10 V, 10 %, 1206	X7R	293D225X9010A2TE3
KEMET	C1206C225K8RALTU	2.2 µF, 10 V, 10 %, 1206	X7R	293D225X9010A2TE3
KEMET	C1206C225M3RACTU	2.2 µF, 25 V, 20 %, 1206	X7R	293D225X0025A2TE3



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MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C1206C225M4VACTU	2.2 µF, 16 V, 20 %, 1206	Y5V	293D225X0016A2TE3
KEMET	C1206C225Z4VACTU	2.2 µF, 16 V, +80 % / -20 %, 1206	Y5V	293D225X0016A2TE3
KEMET	C1206C226K8RACTU	22 µF, 10 V, 10 %, 1206	X7R	T55A226M010C0500
KEMET	C1206C226K9PACTU	22 µF, 6.3 V, 10 %, 1206	X5R	T55A226M6R3C0500
KEMET	C1206C226K9RACTU	22 µF, 6.3 V, 10 %, 1206	X7R	T55A226M6R3C0500
KEMET	C1206C226M8PACTU	22 µF, 10 V, 20 %, 1206	X5R	T55A226M010C0500
KEMET	C1206C226M8RACTU	22 µF, 10 V, 20 %, 1206	X7R	T55A226M010C0500
KEMET	C1206C226M9PACTU	22 µF, 6.3 V, 20 %, 1206	X5R	T55A226M6R3C0500
KEMET	C1206C226Z9VACTU	22 µF, 6.3 V, +80 % / -20 %, 1206	Y5V	T55A226M6R3C0500
KEMET	C1206C335K3PACTU	3.3 µF, 25 V, 10 %, 1206	X5R	293D335X9025A2TE3
KEMET	C1206C335K4PAC7210	3.3 µF, 16 V, 10 %, 1206	X5R	293D335X9016A2TE3
KEMET	C1206C335K4PACTU	3.3 µF, 16 V, 10 %, 1206	X5R	293D335X9016A2TE3
KEMET	C1206C335K4RACTU	3.3 µF, 16 V, 10 %, 1206	X7R	293D335X9016A2TE3
KEMET	C1206C335K8PACTU	3.3 µF, 10 V, 10 %, 1206	X5R	293D335X9010A2TE3
KEMET	C1206C475J3RACTU	4.7 µF, 25 V, 5 %, 1206	X7R	293D475X5025A2TE3
KEMET	C1206C475K3PACTU	4.7 µF, 25 V, 10 %, 1206	X5R	293D475X9025A2TE3
KEMET	C1206C475K3RACAUTO	4.7 µF, 25 V, 10 %, 1206	X7R	TH3A475K025C5000
KEMET	C1206C475K3RACTU	4.7 µF, 25 V, 10 %, 1206	X7R	293D475X9025A2TE3
KEMET	C1206C475K3RALT500	4.7 µF, 25 V, 10 %, 1206	X7R	293D475X9025A2TE3
KEMET	C1206C475K3RALTM	4.7 µF, 25 V, 10 %, 1206	X7R	293D475X9025A2TE3
KEMET	C1206C475K3RALTU	4.7 µF, 25 V, 10 %, 1206	X7R	293D475X9025A2TE3
KEMET	C1206C475K4PACTU	4.7 µF, 16 V, 10 %, 1206	X5R	293D475X9016A2TE3
KEMET	C1206C475K4RACAUTO	4.7 µF, 16 V, 10 %, 1206	X7R	TP3A475K016C5000AS
KEMET	C1206C475K4RACTU	4.7 µF, 16 V, 10 %, 1206	X7R	293D475X9016A2TE3
KEMET	C1206C475K8PAC7210	4.7 µF, 10 V, 10 %, 1206	X5R	T55A475M010C0500
KEMET	C1206C475K8PACTU	4.7 µF, 10 V, 10 %, 1206	X5R	T55A475M010C0500
KEMET	C1206C475K8RACTU	4.7 µF, 10 V, 10 %, 1206	X7R	T55A475M010C0500
KEMET	C1206C475K8RALTU	4.7 µF, 10 V, 10 %, 1206	X7R	T55A475M010C0500
KEMET	C1206C475K9PACTU	4.7 µF, 6.3 V, 10 %, 1206	X5R	T55A475M6R3C0500
KEMET	C1206C475K9RACTU	4.7 µF, 6.3 V, 10 %, 1206	X7R	T55A475M6R3C0500
KEMET	C1206C475M3PACTU	4.7 µF, 25 V, 20 %, 1206	X5R	293D475X0025A2TE3
KEMET	C1206C475M3RACTU	4.7 µF, 25 V, 20 %, 1206	X7R	293D475X0025A2TE3
KEMET	C1206C475M3RALTU	4.7 µF, 25 V, 20 %, 1206	X7R	293D475X0025A2TE3
KEMET	C1206C475M4PACTU	4.7 µF, 16 V, 20 %, 1206	X5R	293D475X0016A2TE3
KEMET	C1206C475M8PACTU	4.7 µF, 10 V, 20 %, 1206	X5R	T55A475M010C0500
KEMET	C1206C475Z4VACTU	4.7 µF, 16 V, +80 % / -20 %, 1206	Y5V	293D475X0016A2TE3
KEMET	C1206C476M8PACTU	47 µF, 10 V, 20 %, 1206	X5R	T58A0476M010C0175
KEMET	C1206C476M9PACTU	47 µF, 6.3 V, 20 %, 1206	X5R	T55A476M6R3C0500
KEMET	C1206C685K4RACTU	6.8 µF, 16 V, 10 %, 1206	X7R	293D685X9016A2TE3
KEMET	C1206F105K3RACTU	1.0 µF, 25 V, 10 %, 1206	X7R	293D105X9025A2TE3
KEMET	C1206T105K3RALTU	1.0 µF, 25 V, 10 %, 1206	X7R	293D105X9025A2TE3
KEMET	C1206T106K4RAL	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RALTU	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RCL	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RCLT100	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RCLT7025	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RCLTM	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RCLTM7136	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206T106K4RCLTU	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3



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MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C1206T106K8RACTU	10 µF, 10 V, 10 %, 1206	X7R	T55A106M010C0500
KEMET	C1206T106K8RALTU	10 µF, 10 V, 10 %, 1206	X7R	T55A106M010C0500
KEMET	C1206T225K3RAL7571	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
KEMET	C1206T225K3RCLTU	2.2 µF, 25 V, 10 %, 1206	X7R	293D225X9025A2TE3
KEMET	C1206T225K4RALC3884	2.2 µF, 16 V, 10 %, 1206	X7R	293D225X9016A2TE3
KEMET	C1206T225K8RALTU	2.2 µF, 10 V, 10 %, 1206	X7R	293D225X9010A2TE3
KEMET	C1206T475K4RAC	4.7 µF, 16 V, 10 %, 1206	X7R	293D475X9016A2TE3
KEMET	C1206T475K8RACTU	4.7 µF, 10 V, 10 %, 1206	X7R	T55A475M010C0500
KEMET	C1206T475K8RCL7013	4.7 µF, 10 V, 20 %, 1206	X7R	T55A475M010C0500
KEMET	C1206X105K3RACTU	1.0 µF, 25 V, 10 %, 1206	X7R	293D105X9025A2TE3
KEMET	C1206X106K4RACTU	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
KEMET	C1206X106K9RACTU	10 µF, 6.3 V, 10 %, 1206	X7R	T55A106M6R3C0500
KEMET	C1206X106M4RACTU	10 µF, 16 V, 20 %, 1206	X7R	293D106X0016A2TE3
KEMET	C1206X475J4RALTU	4.7 µF, 16 V, 5 %, 1206	X7R	293D475X5016A2TE3
KEMET	C1206X475K4RACTU	4.7 µF, 16 V, 10 %, 1206	X7R	293D475X9016A2TE3
KEMET	C1210C105J5NACTU	1.0 µF, 50 V, 5 %, 1210	X8L	293D105X5050B2TE3
KEMET	C1210C105J5RACTU	1.0 µF, 50 V, 5 %, 1210	X7R	293D105X5050B2TE3
KEMET	C1210C105K3PACTU	1.0 µF, 25 V, 10 %, 1210	X5R	293D105X9025B2TE3
KEMET	C1210C105K3RACTU	1.0 µF, 25 V, 10 %, 1210	X7R	293D105X9025B2TE3
KEMET	C1210C105K5PACTU	1.0 µF, 50 V, 10 %, 1210	X5R	293D105X9050B2TE3
KEMET	C1210C105K5RACAUTO	1.0 µF, 50 V, 10 %, 1210	X7R	TP3B105K050C6700AS
KEMET	C1210C105K5RACTU	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
KEMET	C1210C105K5RAL/500	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
KEMET	C1210C105K5RALTU	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
KEMET	C1210C105K8RACTU	1.0 µF, 10 V, 10 %, 1210	X7R	293D105X9020B2TE3
KEMET	C1210C105M5RACTU	1.0 µF, 50 V, 20 %, 1210	X7R	293D105X0050B2TE3
KEMET	C1210C106J8NACTU	10 µF, 10 V, 5 %, 1210	X8L	293D106X5010B2TE3
KEMET	C1210C106K3PACTU	10 µF, 25 V, 10 %, 1210	X5R	T55B106M025C0150
KEMET	C1210C106K3PACTU1500	10 µF, 25 V, 10 %, 1210	X5R	T55B106M025C0150
KEMET	C1210C106K3RACTU	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
KEMET	C1210C106K3RALTU	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
KEMET	C1210C106K4PACTU	10 µF, 16 V, 10 %, 1210	X5R	T55B106M016C0200
KEMET	C1210C106K4RACTU	10 µF, 16 V, 10 %, 1210	X7R	T55B106M016C0200
KEMET	C1210C106K4RALTU	10 µF, 16 V, 10 %, 1210	X7R	T55B106M016C0200
KEMET	C1210C106K6PACTU1500	10 µF, 35 V, 10 %, 1210	X5R	T55B106M035C0200
KEMET	C1210C106K8PACTU	10 µF, 10 V, 10 %, 1210	X5R	293D106X9010B2TE3
KEMET	C1210C106K8RACTU	10 µF, 10 V, 10 %, 1210	X7R	293D106X9010B2TE3
KEMET	C1210C106K8RAL/500	10 µF, 10 V, 10 %, 1210	X7R	293D106X9010B2TE3
KEMET	C1210C106M3PACTU	10 µF, 25 V, 20 %, 1210	X5R	T55B106M025C0150
KEMET	C1210C106M3PALTU	10 µF, 25 V, 20 %, 1210	X5R	T55B106M025C0150
KEMET	C1210C106M3RACTU	10 µF, 25 V, 20 %, 1210	X7R	T55B106M025C0150
KEMET	C1210C106M4PACTU	10 µF, 16 V, 20 %, 1210	X5R	T55B106M016C0200
KEMET	C1210C106M6PACTU	10 µF, 35 V, 20 %, 1210	X5R	T55B106M035C0200
KEMET	C1210C106M8RALTU	10 µF, 10 V, 20 %, 1210	X7R	293D106X0010B2TE3
KEMET	C1210C106Z4VACTU	10 µF, 16 V, +80 % / -20 %, 1210	Y5V	T55B106M016C0200
KEMET	C1210C107M8PACTU	100 µF, 10 V, 20 %, 1210	X5R	293D107X0010B2TE3
KEMET	C1210C107M9PACTU	100 µF, 6.3 V, 20 %, 1210	X5R	T55B107M6R3C0100
KEMET	C1210C155K3RACTU	1.5 µF, 25 V, 10 %, 1210	X7R	293D155X9025B2TE3
KEMET	C1210C155K4RACTU	1.5 µF, 16 V, 10 %, 1210	X7R	293D155X9016B2TE3



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MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C1210C156K8PACTU	15 µF, 10 V, 10 %, 1210	X5R	293D156X9010B2TE3
KEMET	C1210C225K3PACTU	2.2 µF, 25 V, 10 %, 1210	X5R	293D225X9025B2TE3
KEMET	C1210C225K3RACTU	2.2 µF, 25 V, 10 %, 1210	X7R	293D225X9025B2TE3
KEMET	C1210C225K3RALTU	2.2 µF, 25 V, 10 %, 1210	X7R	293D225X9025B2TE3
KEMET	C1210C225K4RACTU	2.2 µF, 16 V, 10 %, 1210	X7R	293D225X9016B2TE3
KEMET	C1210C225K5RACTU	2.2 µF, 50 V, 10 %, 1210	X7R	293D225X9050B2TE3
KEMET	C1210C225K8RACTU	2.2 µF, 10 V, 10 %, 1210	X7R	293D225X9010B2TE3
KEMET	C1210C225M5RACTU	2.2 µF, 50 V, 20 %, 1210	X7R	293D225X0050B2TE3
KEMET	C1210C226J8RACAUTO	22 µF, 25 V, 5 %, 1210	X7R	TP3B226K010C1900AS
KEMET	C1210C226K3PACTU	22 µF, 25 V, 10 %, 1210	X5R	T58BB226M025C0150
KEMET	C1210C226K3RACTU	22 µF, 25 V, 10 %, 1210	X7R	T58BB226M025C0150
KEMET	C1210C226K4PACTU	22 µF, 16 V, 10 %, 1210	X5R	T55B226M016C0150
KEMET	C1210C226K4RACTU	22 µF, 16 V, 10 %, 1210	X7R	T55B226M016C0150
KEMET	C1210C226K8PACTU	22 µF, 10 V, 10 %, 1210	X5R	T55B226M010C0300
KEMET	C1210C226K8PACTU9206	22 µF, 10 V, 10 %, 1210	X5R	T55B226M010C0300
KEMET	C1210C226K8PALTU	22 µF, 10 V, 10 %, 1210	X5R	T55B226M010C0300
KEMET	C1210C226K8RACAUTO	22 µF, 10 V, 10 %, 1210	X7R	TP3B226K010C1900AS
KEMET	C1210C226K8RACTU	22 µF, 10 V, 10 %, 1210	X7R	T55B226M010C0300
KEMET	C1210C226K9PACTU	22 µF, 6.3 V, 10 %, 1210	X5R	T55B226M6R3C0150
KEMET	C1210C226K9RACTU	22 µF, 6.3 V, 10 %, 1210	X7R	T55B226M6R3C0150
KEMET	C1210C226M3PACTU	22 µF, 25 V, 20 %, 1210	X5R	T58BB226M025C0150
KEMET	C1210C226M3R2C7289	22 µF, 25 V, 20 %, 1210	X7R	T58BB226M025C0150
KEMET	C1210C226M3RACTU	22 µF, 25 V, 20 %, 1210	X7R	T58BB226M025C0150
KEMET	C1210C226M4PACTU	22 µF, 16 V, 20 %, 1210	X5R	T55B226M016C0150
KEMET	C1210C226M4RACTU	22 µF, 16 V, 20 %, 1210	X7R	T55B226M016C0150
KEMET	C1210C226M8PACTU	22 µF, 10 V, 20 %, 1210	X5R	T55B226M010C0300
KEMET	C1210C226M8RACTU	22 µF, 10 V, 20 %, 1210	X7R	T55B226M010C0300
KEMET	C1210C226M8RAL	22 µF, 10 V, 20 %, 1210	X7R	T55B226M010C0300
KEMET	C1210C226Z8VACTU	22 µF, 10 V, +80 % / -20 %, 1210	Y5V	T55B226M010C0300
KEMET	C1210C226Z8VACTU1500	22 µF, 10 V, +80 % / -20 %, 1210	Y5V	T55B226M010C0300
KEMET	C1210C335K3RALTU	3.3 µF, 25 V, 10 %, 1210	X7R	293D335X9025B2TE3
KEMET	C1210C335K4RACTU	3.3 µF, 16 V, 10 %, 1210	X7R	293D335X9016B2TE3
KEMET	C1210C475J3NACTU	4.7 µF, 25 V, 5 %, 1210	X8L	293D475X5025B2TE3
KEMET	C1210C475K3NACTU	4.7 µF, 25 V, 10 %, 1210	X8L	293D475X9025B2TE3
KEMET	C1210C475K3PACTU	4.7 µF, 25 V, 10 %, 1210	X5R	293D475X9025B2TE3
KEMET	C1210C475K3PACTU1500	4.7 µF, 25 V, 10 %, 1210	X5R	293D475X9025B2TE3
KEMET	C1210C475K3PALTU	4.7 µF, 25 V, 10 %, 1210	X5R	293D475X9025B2TE3
KEMET	C1210C475K3RACTU	4.7 µF, 25 V, 10 %, 1210	X7R	293D475X9025B2TE3
KEMET	C1210C475K4PACTU	4.7 µF, 16 V, 10 %, 1210	X5R	293D475X9016B2TE3
KEMET	C1210C475K4PACTU1500	4.7 µF, 16 V, 10 %, 1210	X5R	293D475X9016B2TE3
KEMET	C1210C475K4RACTU	4.7 µF, 16 V, 10 %, 1210	X7R	293D475X9016B2TE3
KEMET	C1210C475K8RACTU	4.7 µF, 10 V, 10 %, 1210	X7R	293D475X9010B2TE3
KEMET	C1210C475M3PACTU	4.7 µF, 25 V, 20 %, 1210	X5R	293D475X0025B2TE3
KEMET	C1210C475M3PACTU1500	4.7 µF, 25 V, 20 %, 1210	X5R	293D475X0025B2TE3
KEMET	C1210C475M3RACTU	4.7 µF, 25 V, 20 %, 1210	X7R	293D475X0025B2TE3
KEMET	C1210C475Z4VACTU1500	4.7 µF, 16 V, +80 % / -20 %, 1210	Y5V	293D475X0016B2TE3
KEMET	C1210C476K9RACTU	47 µF, 6.3 V, 10 %, 1210	X7R	T55B476M6R3C0150
KEMET	C1210C476M4PACTU	47 µF, 16 V, 20 %, 1210	X5R	T58BB476M016C0200
KEMET	C1210C476M8PACTU	47 µF, 10 V, 20 %, 1210	X5R	T55B476M010C0150



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
KEMET	C1210C476M8RACTU	47 µF, 10 V, 20 %, 1210	X7R	T55B476M010C0150
KEMET	C1210C476M9PACTU	47 µF, 6.3 V, 20 %, 1210	X5R	T55B476M6R3C0150
KEMET	C1210C476M9RACTU	47 µF, 6.3 V, 20 %, 1210	X7R	T55B476M6R3C0150
KEMET	C1210C685K3PACTU	6.8 µF, 25 V, 10 %, 1210	X5R	T55B685M025C0100
KEMET	C1210C685K4PACTU	6.8 µF, 16 V, 10 %, 1210	X5R	T55B685M016C0200
KEMET	C1210C685K8PACTU	6.8 µF, 10 V, 10 %, 1210	X5R	293D685X9010B2TE3
KEMET	C1210F225K5RACTU	2.2 µF, 50 V, 10 %, 1210	X7R	293D225X9050B2TE3
KEMET	C1210R105K5RACT250	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
KEMET	C1210T106K3RALTU	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
KEMET	C1210T106K3RCLTM	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
KEMET	C1210T106K3RCLTU	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
KEMET	C1210T106K4RAL7136	10 µF, 16 V, 10 %, 1210	X7R	T55B106M016C0200
KEMET	C1210T106K8RAL	10 µF, 10 V, 10 %, 1210	X7R	293D106X9010B2TE3
KEMET	C1210T106K8RALTU	10 µF, 10 V, 10 %, 1210	X7R	293D106X9010B2TE3
KEMET	C1210T106K8RCLTU	10 µF, 10 V, 10 %, 1210	X7R	293D106X9010B2TE3
KEMET	C1210T106M3RCLTU	10 µF, 25 V, 20 %, 1210	X7R	T55B106M025C0150
KEMET	C1210T226K8RALTU	22 µF, 10 V, 10 %, 1210	X7R	T55B226M010C0300
KEMET	C1210T226K8RCLTU	22 µF, 10 V, 10 %, 1210	X7R	T55B226M010C0300
KEMET	C1210T226M8RAC713675	22 µF, 10 V, 20 %, 1210	X7R	T55B226M010C0300
KEMET	C1210X105K5RACTU	1.0 µF, 50 V, 10 %, 1210	X7R	293D105X9050B2TE3
KEMET	C1210X105M5RACTU	1.0 µF, 50 V, 20 %, 1210	X7R	293D105X0050B2TE3
KEMET	C1210X106K3RACTU	10 µF, 25 V, 10 %, 1210	X7R	T55B106M025C0150
KEMET	C1210X106M3RACTU	10 µF, 25 V, 20 %, 1210	X7R	T55B106M025C0150
KEMET	C1210X225K5RACTU	2.2 µF, 50 V, 10 %, 1210	X7R	293D225X9050B2TE3
KEMET	C1210X226K8RAC3123	22 µF, 10 V, 10 %, 1210	X7R	T55B226M010C0300
KEMET	C1210X226K8RACTU	22 µF, 10 V, 10 %, 1210	X7R	T55B226M010C0300
TDK	CGA4J3X7R1V105K125AB	1.0 µF, 35 V, 10 %, 0805	X7R	TP8P105K040C
TDK	CGA5L3X8R1C335K160AD	3.3 µF, 16 V, 10 %, 1206	X8R	TP3A335K016C5000AS
MURATA	GCM188R71C105KA64D	1.0 µF, 16 V, 10 %, 0603	X7R	TP8M105M016C
MURATA	GCM188R71C105KA64J	1.0 µF, 16 V, 10 %, 0603	X7R	TP8M105M016C
MURATA	GCM21BR70J106KE22K	10 µF, 6.3 V, 10 %, 0805	X7R	TP8R106K010C
MURATA	GCM21BR70J106KE22L	10 µF, 6.3 V, 10 %, 0805	X7R	TP8R106K010C
MURATA	GCM21BR71A106KE22L	10 µF, 10 V, 10 %, 0805	X7R	TP8R106K010C
MURATA	GCM31CR71A106KA64L	10 µF, 10 V, 10 %, 1206	X7R	TP3A106K010C3000AS
MURATA	GCM31CR71C106KA64K	10 µF, 16 V, 10 %, 1206	X7R	TP3A106K016C3000AS
MURATA	GCM31CR71C106KA64L	10 µF, 16 V, 10 %, 1206	X7R	TP3A106K016C3000AS
MURATA	GCM31CR71C475KA37L	4.7 µF, 16 V, 10 %, 1206	X7R	TP3A475K016C5000AS
MURATA	GCM31CR71E475KA14L	4.7 µF, 25 V, 10 %, 1206	X7R	TH3A475K025C5000
MURATA	GCM31CR71E475KA55L	4.7 µF, 25 V, 10 %, 1206	X7R	TH3A475K025C5000
MURATA	GRM155C80G105KE19D	1.0 µF, 4 V, 10 %, 0402	X6S	298D105X06R3K2T
MURATA	GRM155C80J105KE15D	1.0 µF, 6.3 V, 10 %, 0402	X6S	298D105X06R3K2T
MURATA	GRM155C80J105ME15D	1.0 µF, 6.3 V, 20 %, 0402	X6S	298D105X06R3K2T
MURATA	GRM155F50J105ZE01D	1.0 µF, 6.3 V, +80 % / -20 %, 0402	Y5V	298D105X06R3K2T
MURATA	GRM155R60J105KE19D	1.0 µF, 6.3 V, 10 %, 0402	X5R	298D105X06R3K2T
MURATA	GRM155R60J105KE19J	1.0 µF, 6.3 V, 10 %, 0402	X5R	298D105X06R3K2T
MURATA	GRM155R60J105ME19D	1.0 µF, 6.3 V, 20 %, 0402	X5R	298D105X06R3K2T
MURATA	GRM155R60J475ME87D	4.7 µF, 6.3 V, 20 %, 0402	X5R	298W475X0010K2T
MURATA	GRM155R61A105KE15D	1.0 µF, 10 V, 10 %, 0402	X5R	298D105X0010K2T
MURATA	GRM155R61A105ME01D	1.0 µF, 10 V, 20 %, 0402	X5R	298D105X0010K2T



MLCC VS. VISHAY TANTALUM				
MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	DIELECTRIC	VISHAY PART NUMBER
MURATA	GRM155R61C105KA12D	1.0 µF, 16 V, 10 %, 0402	X5R	298D105X0016K2T
MURATA	GRM188R60J105KA01D	1.0 µF, 6.3 V, 10 %, 0603	X5R	298D105X9010M2T
MURATA	GRM188R60J105MA01D	1.0 µF, 6.3 V, 20 %, 0603	X5R	298D105X0010M2T
MURATA	GRM188R60J475KE19D	4.7 µF, 6.3 V, 10 %, 0603	X5R	T55J475M6R3C0500
MURATA	GRM188R61A105KA61D	1.0 µF, 10 V, 10 %, 0603	X5R	298D105X9010M2T
MURATA	GRM188R61C105KA12D	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
MURATA	GRM188R61C105KA93D	1.0 µF, 16 V, 10 %, 0603	X5R	298D105X9016M2T
MURATA	GRM188R61E105KA12D	1.0 µF, 25 V, 10 %, 0603	X5R	298D105X9025M2T
MURATA	GRM188R61E105MA12D	1.0 µF, 25 V, 20 %, 0603	X5R	298D105X0025M2T
MURATA	GRM188R70J105KA01D	1.0 µF, 6.3 V, 10 %, 0603	X7R	298D105X9010M2T
MURATA	GRM188R71A105KA61D	1.0 µF, 10 V, 10 %, 0603	X7R	298D105X9010M2T
MURATA	GRM188R71A105KA61J	1.0 µF, 10 V, 10 %, 0603	X7R	298D105X9010M2T
MURATA	GRM188R71C105KA12D	1.0 µF, 16 V, 10 %, 0603	X7R	298D105X9016M2T
MURATA	GRM188R71C105KE15D	1.0 µF, 16 V, 10 %, 0603	X7R	298D105X9016M2T
MURATA	GRM188R71C105MA12D	1.0 µF, 16 V, 20 %, 0603	X7R	TMCJ1C105MTRF
MURATA	GRM188R71E105KA12D	1.0 µF, 25 V, 10 %, 0603	X7R	298D105X9025M2T
MURATA	GRM219R60J106KE19D	10 µF, 6.3 V, 10 %, 0805	X5R	T55P106M6R3C0500
MURATA	GRM21BR60J335KA11L	3.3 µF, 6.3 V, 10 %, 0805	X5R	T55P335M6R3C0500
MURATA	GRM21BR61C225KA88L	2.2 µF, 16 V, 10 %, 0805	X5R	TMCPC1C225MTRF
MURATA	GRM21BR61C335KA88L	3.3 µF, 16 V, 10 %, 0805	X5R	TMCPC1C335MTRF
MURATA	GRM21BR61E225KA12L	2.2 µF, 25 V, 10 %, 0805	X5R	298D225X0035P2T
MURATA	GRM21BR61E475KA12L	4.7 µF, 25 V, 10 %, 0805	X5R	T58W0475M025C0500
MURATA	GRM21BR70J106KE76L	10 µF, 6.3 V, 10 %, 0805	X7R	T55P106M6R3C0500
MURATA	GRM21BR71A106KA73L	10 µF, 10 V, 10 %, 0805	X7R	TMCPC1A106MTRF
MURATA	GRM21BR71A106KE51K	10 µF, 10 V, 10 %, 0805	X7R	TMCPC1A106MTRF
MURATA	GRM21BR71A106KE51L	10 µF, 10 V, 10 %, 0805	X7R	TMCPC1A106MTRF
MURATA	GRM21BR71A475KA73K	4.7 µF, 10 V, 10 %, 0805	X7R	T55P475M010C0500
MURATA	GRM21BR71A475KA73L	4.7 µF, 10 V, 10 %, 0805	X7R	T55P475M010C0500
MURATA	GRM21BR71C475KA73K	4.7 µF, 16 V, 10 %, 0805	X7R	TMCPC1C475MTRF
MURATA	GRM21BR71C475KA73L	4.7 µF, 16 V, 10 %, 0805	X7R	TMCPC1C475MTRF
MURATA	GRM21BR71E105KA99L	1.0 µF, 25 V, 10 %, 0805	X7R	TMCPC1E105MTRF
MURATA	GRM21BR71E225KA73K	2.2 µF, 25 V, 10 %, 0805	X7R	298D225X0035P2T
MURATA	GRM21BR71E225KA73L	2.2 µF, 25 V, 10 %, 0805	X7R	298D225X0035P2T
MURATA	GRM21BR71E475KA73L	4.7 µF, 25 V, 10 %, 0805	X7R	T58W0475M025C0500
MURATA	GRM21BR71H105KA12L	1.0 µF, 50 V, 10 %, 0805	X7R	298D105X0050P2T
MURATA	GRM21BR71H105MA12L	1.0 µF, 50 V, 20 %, 0805	X7R	298D105X0050P2T
MURATA	GRM31CR60J106KA01L	10 µF, 6.3 V, 10 %, 1206	X5R	T55A106M6R3C0500
MURATA	GRM31CR60J106MA01L	10 µF, 6.3 V, 20 %, 1206	X5R	T55A106M6R3C0500
MURATA	GRM31CR60J476ME19L	47 µF, 6.3 V, 20 %, 1206	X5R	T55A476M6R3C0500
MURATA	GRM31CR61A106KA01L	10 µF, 10 V, 10 %, 1206	X5R	T55A106M010C0500
MURATA	GRM31CR61C106KA88L	10 µF, 16 V, 10 %, 1206	X5R	293D106X9016A2TE3
MURATA	GRM31CR61C106MA88L	10 µF, 16 V, 20 %, 1206	X5R	293D106X0016A2TE3
MURATA	GRM31CR61C475KA01L	4.7 µF, 16 V, 10 %, 1206	X5R	293D475X9016A2TE3
MURATA	GRM31CR70J106KA01L	10 µF, 6.3 V, 10 %, 1206	X7R	T55A106M6R3C0500
MURATA	GRM31CR71A106KA01L	10 µF, 10 V, 10 %, 1206	X7R	T55A106M010C0500
MURATA	GRM31CR71A475KA01L	4.7 µF, 10 V, 10 %, 1206	X7R	T55A475M010C0500
MURATA	GRM31CR71A475MA01L	4.7 µF, 10 V, 20 %, 1206	X7R	T55A475M010C0500
MURATA	GRM31CR71C106KA12L	10 µF, 16 V, 10 %, 1206	X7R	293D106X9016A2TE3
MURATA	GRM31CR71C475KA01L	4.7 µF, 16 V, 10 %, 1206	X7R	293D475X9016A2TE3
MURATA	GRM31CR71E475KA88L	4.7 µF, 25 V, 10 %, 1206	X7R	293D475X9025A2TE3
MURATA	GRM32ER70J476ME20L	47 µF, 6.3 V, 20 %, 1210	X7R	T55B476M6R3C0150
MURATA	GRM32ER71E226KE15K	22 µF, 25 V, 10 %, 1210	X7R	T58BB226M025C0150