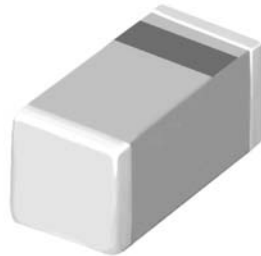
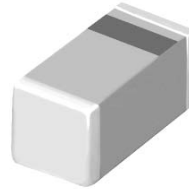


Miniature Surface Mount Tantalum Capacitors



**0603
footprint
case size
R**



**0402
footprint
case size
P**

FEATURES

- **0402 footprint - Nemco case size P**
- **0603 footprint - Nemco case size R**
- Lead-free
- RoHS compliant
- Capacitance range: 0.47 μf to 22 μf
- Voltage range: 2 to 16 WVDC
- Operating temperature range -55°C to +125°C, 2/3 x Vr (linear derating) above +85°C
- Meets or exceeds EIA 535 BAAC and IECQ standards (QC300801/US0001, IS - 28)
- Surge tested for maximum robustness
- Laser marking polarity stripe
- Encapsulant material satisfies the UL 94 VO flammability classification
- MSL (moisture sensitivity level) per IPC/Jedec J-STD-020B is level 1



Lead Free



RoHS
compliant

Capacitance (µF)	Case Size	Nemco Part No.	DCL (µA) max.	tan δ max. (%)	ESR @ 100kHz max. mΩ
0402 FOOTPRINT / CASE SIZE P					
2 V DC @ 85°C					
3.3	P	MCT3.3 / 2PM15000	0.5	8	15000
4.7	P	MCT4.7 / 2PM15000	0.5	12	15000
10.0	P	MCT10 / 2PM15000	0.5	15	15000
3 V DC @ 85°C					
2.2	P	MCT2.2 / 3PM15000	0.5	6	15000
3.3	P	MCT3.3 / 3PM15000	0.5	8	15000
4.7	P	MCT4.7 / 3PM15000	0.5	12	15000
6.3 V DC @ 85°C					
1.0	P	MCT1.0 / 6PM15000	0.5	6	15000
2.2	P	MCT2.2 / 6PM15000	0.5	8	15000
10 V DC @ 85°C					
0.47	P	MCT.47 / 10PM15000	0.5	6	15000
0.68	P	MCT.68 / 10PM15000	0.5	8	15000
1.0	P	MCT1 / 10PM15000	0.5	6	15000

Capacitance (µF)	Case Size	Nemco Part No.	DCL (µA) max.	tan δ max. (%)	ESR @ 100kHz max. mΩ
0603 FOOTPRINT / CASE SIZE R					
2 V DC @ 85°C					
3.3	R	MCT3.3 / 2RM7500	0.5	6	7500
4.7	R	MCT4.7 / 2RM7500	0.5	6	7500
6.8	R	MCT6.8 / 2RM7500	0.5	6	7500
10.0	R	MCT10 / 2RM7500	0.5	10	7500
3 V DC @ 85°C					
2.2	R	MCT2.2 / 3RM7500	0.5	6	7500
3.3	R	MCT3.3 / 3RM7500	0.5	6	7500
4.7	R	MCT4.7 / 3RM7500	0.5	6	7500
6.8	R	MCT6.8 / 3RM7500	0.5	6	7500
10.0	R	MCT10 / 3RM7500	0.5	10	7500
22.0	R	MCT22 / 3RM7500	0.7	20	7500
4 V DC @ 85°C					
1.5	R	MCT1.5 / 4RM7500	0.5	6	7500
2.2	R	MCT2.2 / 4RM7500	0.5	6	7500
3.3	R	MCT3.3 / 4RM7500	0.5	6	7500
4.7	R	MCT4.7 / 4RM7500	0.5	6	7500
6.8	R	MCT6.8 / 4RM7500	0.5	8	7500
10.0	R	MCT10 / 4RM7500	0.5	10	7500
15.0	R	MCT15 / 4RM7500	0.6	20	7500
22.0	R	MCT22 / 4RM7500	0.9	20	7500
5 V DC @ 85°C					
22.0	R	MCT22 / 5RM7500	1.1	20	7500
6.3 V DC @ 85°C					
1.0	R	MCT1 / 6RM7500	0.5	6	7500
1.5	R	MCT1.5 / 6RM7500	0.5	6	7500
2.2	R	MCT2.2 / 6RM7500	0.5	6	7500
3.3	R	MCT3.3 / 6RM7500	0.5	6	7500
4.7	R	MCT4.7 / 6RM7500	0.5	8	7500
6.8	R	MCT6.8 / 6RM7500	0.5	10	7500
10.0	R	MCT10 / 6RM6000	0.6	10	6000
10.0	R	MCT10 / 6RM4000	0.6	10	4000
15.0	R	MCT15 / 6RM7500	0.9	20	7500
10 V DC @ 85°C					
0.47	R	MCT.47 / 10RM7500	0.5	6	7500
0.68	R	MCT.68 / 10RM7500	0.5	6	7500
1.0	R	MCT1 / 10RM7500	0.5	6	7500
1.5	R	MCT1.5 / 10RM7500	0.5	6	7500
2.2	R	MCT2.2 / 10RM7500	0.5	6	7500
3.3	R	MCT3.3 / 10RM7500	0.5	8	7500
3.3	R	MCT3.3 / 10RM5000	0.5	8	5000
4.7	R	MCT4.7 / 10RM6000	0.5	10	6000
4.7	R	MCT4.7 / 10RM5000	0.5	10	5000
6.8	R	MCT6.8 / 10RM7500	0.7	20	7500
10.0	R	MCT10 / 10RM7500	1.0	20	7500
10.0	R	MCT10 / 10RM4000	1.0	20	4000
16 V DC @ 85°C					
0.47	R	MCT.47 / 16RM7500	0.5	6	7500
0.68	R	MCT.68 / 16RM7500	0.5	6	7500
1.0	R	MCT1 / 16RM7500	0.5	6	7500
2.2	R	MCT2.2 / 16RM7500	0.5	10	7500

Available in M (± 20%) tolerance only.

NEMCO reserves the right to supply a higher voltage rating, tighter tolerance and / or lower ESR in the same case size, to the same reliability standards.