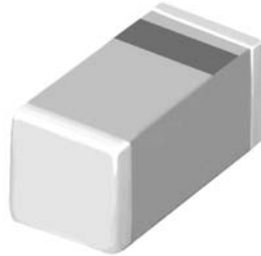
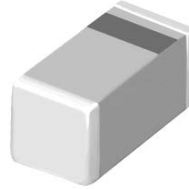


Consumer Grade Surface Mount Tantalum Capacitors



**0603
footprint
case size
R**



**0402
footprint
case size
P**

FEATURES

- **0402 footprint (EIA 1005-07) - Nemco case size P**
- **0603 footprint (EIA 1608-10) - Nemco case size R**
- Capacitance range: 0.47 μf to 47 μf
- Voltage range: 2 to 25 WVDC
- Operating temperature range -55°C to +125°C,
linear derating above +40°C to 0.5 x V_r at +85°C and 0.2 x V_r at +125°C
- Meets or exceeds EIA 535 BAAC and IECQ standards (QC300801/US0001, IS - 28)
- 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 3
- Reliability .2% per 1000 hours at 85°C, 0.5x V_r with 0.1ohm/V series impedance with 60% confidence level



Lead Free



**RoHS
compliant**

Capacitance (µF)	Case Size	Nemco Part No.	DCL (µA) max.	ESR @ 100kHz max. mΩ
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0402 FOOTPRINT (EIA 1005-07) - CASE SIZE P

2 V DC @ 40°C				
3.3	P	CGT3.3 / 2PM15000	0.5	15000
4.7	P	CGT4.7 / 2PM15000	0.5	15000
10.0	P	CGT10 / 2PM15000	0.5	15000
3 V DC @ 40°C				
2.2	P	CGT2.2 / 3PM15000	0.5	15000
3.3	P	CGT3.3 / 3PM15000	0.5	15000
4.7	P	CGT4.7 / 3PM15000	0.5	15000
6.8	P	CGT6.8 / 3PM15000	0.5	15000
10.0	P	CGT10 / 3PM15000	0.5	15000
4 V DC @ 40°C				
4.7	P	CGT4.7 / 4PM15000	0.5	15000
6.8	P	CGT6.8 / 4PM15000	0.5	15000
10.0	P	CGT10 / 4PM15000	0.5	15000
6.3 V DC @ 40°C				
1.0	P	CGT1.0 / 6PM15000	0.5	15000
2.2	P	CGT2.2 / 6PM15000	0.5	15000
4.7	P	CGT4.7 / 6PM15000	0.5	15000
10.0	P	CGT2.2 / 6PM15000	0.5	15000
10 V DC @ 40°C				
0.47	P	CGT.47 / 10PM15000	0.5	15000
0.68	P	CGT.68 / 10PM15000	0.5	15000
1.0	P	CGT1 / 10PM15000	0.5	15000
2.2	P	CGT2.2 / 10PM15000	0.5	15000
16 V DC @ 40°C				
0.47	P	CGT.47 / 16PM15000	0.5	15000

0603 FOOTPRINT (EIA 1608-10) - CASE SIZE R

2 V DC @ 40°C				
3.3	R	CGT3.3 / 2RM7500	0.5	7500
4.7	R	CGT4.7 / 2RM7500	0.5	7500
6.8	R	CGT6.8 / 2RM7500	0.5	7500
10.0	R	CGT10 / 2RM7500	0.5	7500
47.0	R	CGT47 / 2RM7500	0.9	7500
3 V DC @ 40°C				
2.2	R	CGT2.2 / 3RM7500	0.5	7500
3.3	R	CGT3.3 / 3RM7500	0.5	7500
4.7	R	CGT4.7 / 3RM7500	0.5	7500
6.8	R	CGT6.8 / 3RM7500	0.5	7500
10.0	R	CGT10 / 3RM7500	0.5	7500
22.0	R	CGT22 / 3RM7500	0.7	7500
47.0	R	CGT47 / 3RM7500	1.4	7500
4 V DC @ 40°C				
1.5	R	CGT1.5 / 4RM7500	0.5	7500
2.2	R	CGT2.2 / 4RM7500	0.5	7500
3.3	R	CGT3.3 / 4RM7500	0.5	7500
4.7	R	CGT4.7 / 4RM7500	0.5	7500
6.8	R	CGT6.8 / 4RM7500	0.5	7500
10.0	R	CGT10 / 4RM7500	0.5	7500
15.0	R	CGT15 / 4RM7500	0.6	7500
22.0	R	CGT22 / 4RM7500	0.9	7500
33.0	R	CGT33 / 4RM7500	1.3	7500
47.0	R	CGT47 / 4RM7500	1.9	7500

Capacitance (µF)	Case Size	Nemco Part No.	DCL (µA) max.	ESR @ 100kHz max. mΩ
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0603 FOOTPRINT (EIA 1608-10) - CASE SIZE R

6.3 V DC @ 40°C				
1.0	R	CGT1 / 6RM7500	0.5	7500
1.5	R	CGT1.5 / 6RM7500	0.5	7500
2.2	R	CGT2.2 / 6RM7500	0.5	7500
3.3	R	CGT3.3 / 6RM7500	0.5	7500
4.7	R	CGT4.7 / 6RM7500	0.5	7500
6.8	R	CGT6.8 / 6RM7500	0.5	7500
10.0	R	CGT10 / 6RM7500	0.6	7500
10.0	R	CGT10 / 6RM6000	0.6	6000
10.0	R	CGT10 / 6RM4000	0.6	4000
15.0	R	CGT15 / 6RM7500	0.9	7500
22.0	R	CGT22 / 6RM7500	1.4	7500
33.0	R	CGT33 / 6RM7500	2.1	7500
10 V DC @ 40°C				
0.47	R	CGT.47 / 10RM7500	0.5	7500
0.68	R	CGT.68 / 10RM7500	0.5	7500
1.0	R	CGT1 / 10RM7500	0.5	7500
1.5	R	CGT1.5 / 10RM7500	0.5	7500
2.2	R	CGT2.2 / 10RM7500	0.5	7500
3.3	R	CGT3.3 / 10RM7500	0.5	7500
3.3	R	CGT3.3 / 10RM5000	0.5	5000
4.7	R	CGT4.7 / 10RM7500	0.5	7500
4.7	R	CGT4.7 / 10RM6000	0.5	6000
4.7	R	CGT4.7 / 10RM5000	0.5	5000
6.8	R	CGT6.8 / 10RM7500	0.7	7500
10.0	R	CGT10 / 10RM7500	1.0	7500
10.0	R	CGT10 / 10RM4000	1.0	4000
15.0	R	CGT15 / 10RM7500	1.5	7500
22.0	R	CGT22 / 10RM7500	2.2	7500
16 V DC @ 40°C				
0.33	R	CGT.33 / 16RM7500	0.5	7500
0.47	R	CGT.47 / 16RM7500	0.5	7500
0.68	R	CGT.68 / 16RM7500	0.5	7500
1.0	R	CGT1 / 16RM7500	0.5	7500
2.2	R	CGT2.2 / 16RM7500	0.5	7500
3.3	R	CGT3.3 / 16RM7500	0.5	7500
20 V DC @ 40°C				
1.0	R	CGT1.0 / 20RM7500	0.5	7500
2.2	R	CGT2.2 / 20RM7500	0.5	7500
25 V DC @ 40°C				
0.33	R	CGT.33 / 25RM7500	0.5	7500
1.0	R	CGT1.0 / 25RM7500	0.5	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.