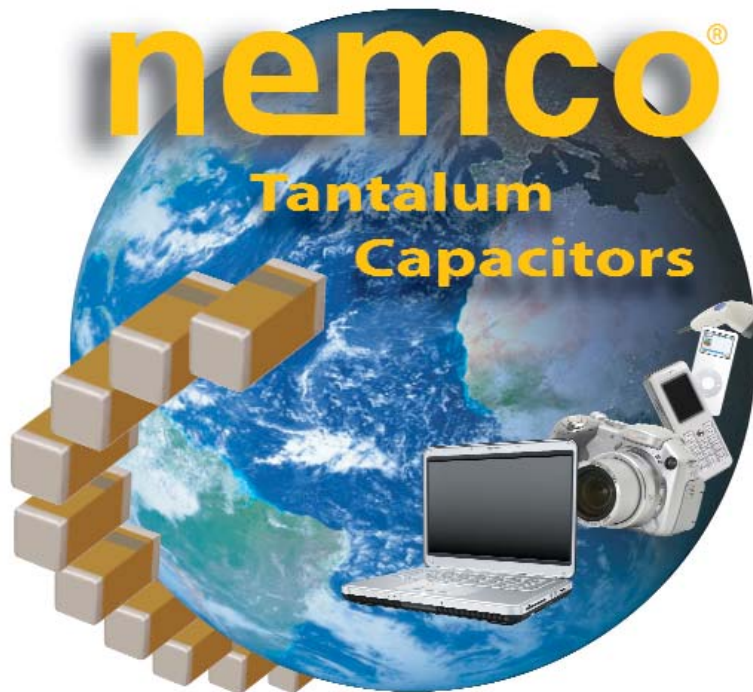


Consumer Grade



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 Vr at +85°C and 0.2 x Vr 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, 0.5xV_R with 0.1ohm/V series impedance with 60% confidence level

www.nemcocaps.com

Nemco Electronics Corporation

675 Mariners Island Blvd., San Mateo, CA 94404

Telephone: (650) 571-1234 • Toll Free: (800) 227-4058



**RoHS
compliant**



Lead Free

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
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6.3 V DC @ 40°C

1.0	P	CGT1.0 / 6PM15000	0.5	15000
2.2	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

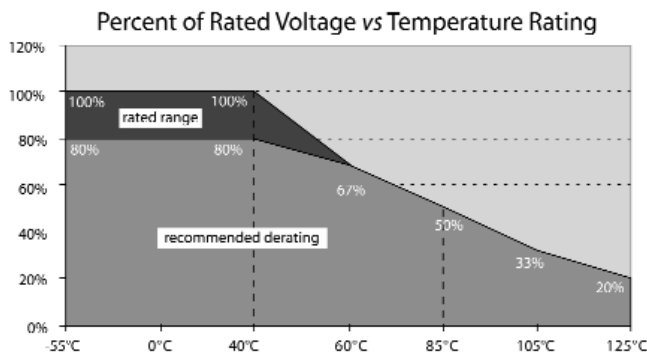
0.47	P	CGT.47 / 16PM15000	0.5	15000
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Technical data relates to an ambient temperature of +25°C.
Capacitance is measured at 120Hz, 0.5 RMS with DC bias of 1.5V.
DCL is measured at rated voltage after 5 minutes

ESR - allow for an increase to ESR ratings of 1.25 times the catalog limit post PCB assembly

DCL - allow for an increase to DCL ratings of 2 times the catalog limit post PCB assembly

Capacitance tolerance ± 20% (M)



Leakage Current DCL: 0.01CV or 0.5μA whichever is greater								
Rated Voltage	-55°C ≤ +40°C	2V	3V	4V	6.3V	10V	16V	25V
Temperature Derated Voltage	+85°C	1	1.5	2	3.2	5.0	8.0	12.5
Temperature Derated Voltage	+125°C	0.4	0.6	0.8	1.3	2.0	3.2	5.0
Termination Finish: 100% Sn plating (lead free)								

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

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

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 / 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

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 / 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

16 V DC @ 40°C

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

25 V DC @ 40°C

1.0	R	CGT1.0 / 25RM7500	0.5	7500
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