# SPRAGUE GOODMAN Trimmer Capacitors



## FILMTRIM® PLASTIC DIELECTRIC TRIMMER CAPACITORS, 8MM GYA SERIES, 10MM GYC AND GZC SERIES

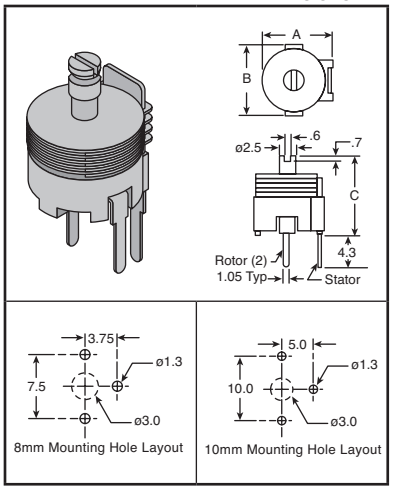
**Features:**
- Low cost for commercial/industrial applications
- Top and bottom adjustable
- Linear capacitance change vs. rotation
- Typical applications: mobile radios, transmitters, pagers, electronic games, wireless security and fire alarms, and CATV

**Specifications:**
- Voltage rating: 100 VDC
- Dielectric withstanding voltage: 200 VDC
- Contact resistance: 0.010Ω max
- Insulation resistance: $10^4$ MΩ min
- Operating temperature: GYA, GYC: -40°C to +70°C GZC: -40°C to + 85°C
- Torque: GYA series: 15-250 g-cm (0.21-3.5 oz-in) GYC, GZC series: 15-360 g-cm (0.20-5.0 oz-in)
- Dielectric construction: GYA, GYC: Polypropylene GZC: Polycarbonate

**For quantities greater than listed, call for quote.**

| MOUSER STOCK NO. Mfr. | Mfr. Part Number | Cap. Range (pF) Min | Cap. Range (pF) Max | Q Factor @ 1MHz | TCC (ppm/°C) | Dimensions: mm A | B | C | Color Code | Price Each 1 | 10 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **8mm** | | | | | | | | | | | | |
| 659— | GYA5R000 | 1.6 | 5.0 | 1000 | 0±300 | 8.5 | 7.7 | 10.2 | Clear | 2.12 | 1.79 | 1.26 |
| 659— | GYA10000 | 2.0 | 10.0 | 1000 | 0±300 | 8.5 | 7.7 | 10.2 | Yellow | 1.61 | 1.37 | .967 |
| 659— | GYA15000 | 2.0 | 15.0 | 1000 | 0±400 | 8.5 | 7.7 | 10.2 | Blue | 2.28 | 1.94 | 1.37 |
| 659— | GYA22000 | 2.2 | 22.0 | 1000 | 0±400 | 8.5 | 7.7 | 10.2 | Green | 2.00 | 1.70 | 1.05 |
| 659— | GYA27000 | 2.3 | 27.0 | 1000 | 0±350 | 8.5 | 7.7 | 10.2 | Red | 1.48 | 1.35 | 1.12 |
| 659— | GYA36000 | 3.0 | 36.0 | 1000 | 0±300 | 8.5 | 7.7 | 10.2 | Violet | 2.18 | 2.00 | 1.65 |
| **10mm** | | | | | | | | | | | | |
| 659— | GYC15000 | 2.0 | 15.0 | 1000 | 0±400 | 11 | 10.2 | 10.2 | Blue | 1.83 | 1.68 | 1.39 |
| 659— | GYC20000 | 3.0 | 20.0 | 1000 | 0±400 | 11 | 10.2 | 10.2 | Green | 1.88 | 1.73 | 1.43 |
| 659— | GYC40000 | 3.5 | 40.0 | 1000 | 0±350 | 11 | 10.2 | 10.2 | Clear | 1.78 | 1.62 | 1.35 |
| 659— | GYC65000 | 4.5 | 65.0 | 1000 | 0±350 | 11 | 10.2 | 10.2 | Yellow | 1.62 | 1.49 | 1.23 |
| 659— | GZC80000 | 8.0 | 80.0 | 200 | 0±200 | 11 | 10.2 | 10.2 | Red | 2.30 | 2.12 | 1.75 |
| 659— | GZC10100 | 9.0 | 100.0 | 200 | 0±400 | 11 | 10.2 | 11.4 | Violet | 3.88 | 3.57 | 2.95 |
| 659— | GZC12100 | 9.0 | 120.0 | 200 | 0±350 | 11 | 10.2 | 11.4 | Orange | 8.20 | 7.54 | 6.22 |
| 659— | GZC15100 | 10.0 | 150.0 | 200 | 0±350 | 11 | 10.2 | 12.0 | Orange | 9.58 | 8.80 | 7.27 |
| 659— | GZC18100 | 12.0 | 180.0 | 200 | 0±350 | 11 | 10.2 | 12.0 | Orange | 9.48 | 8.61 | 7.15 |

DIMENSIONS: mm



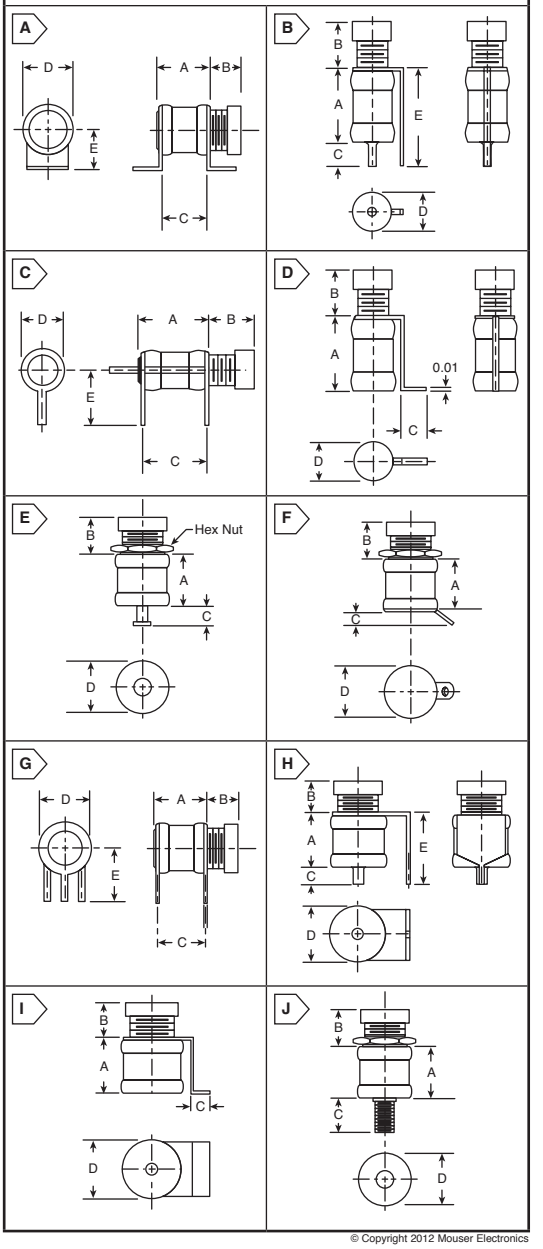

## AIRTRIM® GAA SERIES MULTI-TURN TRIMMER CAPACITORS

**Features:**
- Multiple mounting styles, including surface mount
- Excellent stability
- Multi-turn resolution
- High Q

**Applications:**
Designed for VHF, UHF and microwave applications: amplifiers, oscillators, filters, radar, cable TV, mobile radios, and RF applications. Suitable for military and aerospace environments.

**Specifications:**
- Operating temperature range: -65°C to +125°C
- Voltage rating: 250 VDC
- Test voltage: 500 VDC
- Insulation resistance: >$10^9$MΩ min.
- Contact resistance: < 0.01Ω
- Torque: .35 to 3.5pF: 0.3 to 3.0 oz-in (22 to 216 g-cm)
  .6 to 6.0pF: 0.4 to 4.0 oz-in (29 to 288 g-cm)
  1.0 to 16pF: 0.5 to 5.0 oz-in (36 to 360 g-cm)
- Q factor: > 5000 @ 100MHz

DIMENSIONS: in.




### 0.35-3.5 pF Capacitance Range

✻Round nut

**For quantities greater than listed, call for quote.**

| MOUSER STOCK NO. Mfr. | Mfr. Part No. | Fig. | Dimensions: mm A | B | C | D | E | TCC (ppm/°C) | Price Each 1 | 10 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 659— | GAA3R505 | A | 0.28 | 0.21 | 0.24 | 0.16 | 0.15 | ±30 | 45.75 | 42.09 | 38.43 |
| 659— | GAA3R512 | B | 0.28 | 0.21 | 0.11 | 0.16 | 0.40 | ±30 | 47.11 | 43.33 | 39.56 |
| 659— | GAA3R513 | C | 0.28 | 0.21 | 0.25 | 0.16 | 0.22 | ±30 | 45.75 | 42.09 | 38.43 |
| 659— | GAA3R514 | D | 0.28 | 0.21 | 0.10 | 0.16 | --- | ±30 | 47.11 | 43.33 | 39.56 |

### 0.6-6.0 pF Capacitance Range

✻Round nut

**For quantities greater than listed, call for quote.**

| MOUSER STOCK NO. Mfr. | Mfr. Part No. | Fig. | Dimensions: mm A | B | C | D | E | TCC (ppm/°C) | Price Each 1 | 10 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ✻ 659— | GAA6R001 | E | 0.27 | 0.21 | 0.08 | 0.24 | --- | ±15 | 38.13 | 35.07 | 32.01 |
| 659— | GAA6R005 | A | 0.29 | 0.19 | 0.25 | 0.24 | 0.20 | ±15 | 40.37 | 37.15 | 33.91 |
| 659— | GAA6R012 | B | 0.29 | 0.19 | 0.11 | 0.24 | 0.40 | ±15 | 40.37 | 37.15 | 33.91 |
| 659— | GAA6R014 | D | 0.29 | 0.19 | 0.10 | 0.24 | --- | ±15 | 40.37 | 37.15 | 33.91 |

### 1.0-10.0 pF Capacitance Range

**For quantities greater than listed, call for quote.**

| MOUSER STOCK NO. Mfr. | Mfr. Part No. | Fig. | Dimensions: mm A | B | C | D | E | TCC (ppm/°C) | Price Each 1 | 10 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 659— | GAA10002 | F | 0.30 | 0.20 | 0.06 | 0.30 | --- | ±15 | 35.42 | 32.59 | 29.76 |
| 659— | GAA10004 | G | 0.31 | 0.19 | 0.30 | 0.30 | 0.31 | ±15 | 22.00 | 19.10 | 17.30 |
| 659— | GAA10005 | A | 0.31 | 0.19 | 0.29 | 0.30 | 0.20 | ±15 | 35.42 | 32.59 | 29.76 |
| 659— | GAA10006 | H | 0.31 | 0.19 | 0.11 | 0.30 | 0.44 | ±15 | 22.00 | 19.10 | 17.30 |
| 659— | GAA10009 | I | 0.31 | 0.19 | 0.10 | 0.30 | --- | ±15 | 35.43 | 32.58 | 29.75 |

### 1.0-14.0 pF Capacitance Range

**For quantities greater than listed, call for quote.**

| MOUSER STOCK NO. Mfr. | Mfr. Part No. | Fig. | Dimensions: mm A | B | C | D | E | TCC (ppm/°C) | Price Each 1 | 10 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 659— | GAA14001 | E | 0.30 | 0.20 | 0.11 | 0.30 | --- | ±15 | 21.70 | 19.00 | 18.85 |
| 659— | GAA14004 | G | 0.31 | 0.19 | 0.30 | 0.30 | 0.31 | ±15 | 38.58 | 35.48 | 32.40 |
| 659— | GAA14006 | H | 0.31 | 0.19 | 0.11 | 0.30 | 0.44 | ±15 | 38.58 | 35.48 | 32.40 |
| 659— | GAA14009 | I | 0.31 | 0.19 | 0.10 | 0.30 | --- | ±15 | 21.70 | 19.00 | 18.85 |

### 2.0-16.0 pF Capacitance Range

**For quantities greater than listed, call for quote.**

| MOUSER STOCK NO. Mfr. | Mfr. Part No. | Fig. | Dimensions: mm A | B | C | D | E | TCC (ppm/°C) | Price Each 1 | 10 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 659— | GAA16001 | E | 0.30 | 0.20 | 0.11 | 0.30 | --- | ±15 | 16.78 | 15.43 | 14.09 |
| 659— | GAA16003 | J | 0.30 | 0.20 | 0.20 | 0.30 | --- | ±15 | 16.78 | 15.43 | 14.09 |
| 659— | GAA16004 | G | 0.31 | 0.19 | 0.30 | 0.30 | 0.31 | ±15 | 38.58 | 35.07 | 32.15 |
| 659— | GAA16005 | A | 0.31 | 0.19 | 0.29 | 0.30 | 0.20 | ±15 | 16.78 | 15.43 | 14.09 |
| 659— | GAA16006 | H | 0.31 | 0.19 | 0.11 | 0.30 | 0.44 | ±15 | 16.78 | 15.43 | 14.09 |
| 659— | GAA16009 | I | 0.31 | 0.19 | 0.10 | 0.30 | --- | ±15 | 37.64 | 34.28 | 30.86 |

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