# GCR

## +85°C General Purpose Ceramic Disc Capacitors

## FEATURES

- *Small Size*
- *Inexpensive*
- *Versatile Performer*
- *Long Life*

## SPECIFICATIONS

| | |
|---|---|
| **Capacitance Tolerance** | -20, +80% **(Z)**; ±20% **(M)** |
| **Operating Temperature Range** | - 30°C to +85°C (Y5P, Y5V, Y5U): +10°C to +85°C (Z5V) |
| **Operating Voltage** | 50 WVDC |
| **Dissipation Factor 1kHz, +20°C** | Y5P ≤2.5% Z5V, Y5U, Y5V ≤3.0% |
| **Temperature characteristics** | Y5P, Y5V, Y5U, Z5V |
| **Insulation Resistance 50 WVDC @ 1min.** | 10,000 MΩ or 100 MΩ x µF., whichever is less. |
| **Dielectric Strength** | 250% rated voltage (1-5 seconds) |
| **Life Test Specification** | 1000 hrs. @ 200% rated voltage |

## STANDARD PART LISTING

| IC® PART NUMBER | Capacitance (µF) | Temp. Char. | D Max. | T Max. | S | d |
|---|---|---|---|---|---|---|
| 102GCR050M | .001 | Y5P | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 102GCR050Z | .001 | Y5P | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 152GCR050Z | .0015 | Y5V | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 202GCR050M | .002 | Y5P | 6.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 202GCR050Z | .002 | Y5P | 6.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 222GCR050M | .0022 | Y5P | 7.5 | 3.0 | 5.0±1.5 | .47±.02 |
| 222GCR050Z | .0022 | Y5P | 6.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 302GCR050Z | .003 | Y5V | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 332GCR050M | .0033 | Y5P | 7.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 332GCR050Z | .0033 | Y5V | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 472GCR050M | .0047 | Y5P | 8.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 472GCR050Z | .0047 | Z5V | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 502GCR050M | .005 | Y5P | 8.0 | 3.0 | 5.0±1.5 | .47±.02 |

| IC® PART NUMBER | Capacitance (µf) | Temp. Char. | D Max. | T Max. | S | d |
|---|---|---|---|---|---|---|
| 502GCR050Z | .005 | Y5V | 5.0 | 3.0 | 2.5±1.0 | .58±.02 |
| 682GCR050Z | .0068 | Y5V | 6.0 | 3.0 | 2.5±1.5 | .47±.02 |
| 103GCR050M | .01 | Y5P | 10.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 103GCR050Z | .01 | Y5V | 6.0 | 3.0 | 2.5±1.5 | .47±.02 |
| 153GCR050Z | .015 | Y5V | 6.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 203GCR050Z | .02 | Y5V | 7.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 223GCR050Z | .022 | Y5V | 7.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 303GCR050Z | .03 | Z5V | 7.0 | 3.0 | 5.0±1.5 | .47±.02 |
| 473GCR050Z | .047 | Y5V | 6.7 | 3.0 | 7.5±1.5 | .47=.02 |
| 503GCR050Z | .05 | Y5V | 6.7 | 3.0 | 7.5±1.5 | .47±.02 |
| 104GCR050M | .1 | Y5U | 7.0 | 3.0 | 10.0±1.5 | .47±.02 |
| 104GCR050Z | .1 | Y5V | 8.0 | 3.0 | 10.0±1.5 | .47±.02 |
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Convert to inches, divide by 25.4

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