

# 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

<b>ic</b> 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

<b>ic</b> 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

Convert to inches, divide by 25.4