

BCR

+85°C Temperature Stable Ceramic Disc Capacitors

FEATURES

- Stable Temperature Characteristics
- Capacitance Range: 1pF to 680 pF
- Small Size

SPECIFICATIONS

Capacitance Tolerance	≤10 pF: ±0.5 pF (D): ≥12 pF: ±10% (K)
Operating Temperature Range	-55°C to +125°C
Operating Voltage	50 WVDC
Dissipation Factor	≤ 1.5% @ 1kHz, +20°C; ≤30 pF: Q≥400 @ 1MHz >30 pF: Q≥1,000 @ 1MHz
Temperature Characteristics	NPO, N750, N1000, Y5E
Insulation Resistance 50WVDC @ 1 min.	≥5,000 MΩ
Dielectric Strength	250% rated voltage (60 seconds)
Life Test Specification	1000 hrs. @ 200% rated voltage

STANDARD PART LISTING

ic [®] PART NUMBER	Capacitance pf	Temp. Char.	D Max.	T Max.	S	d
1R0BCR050D	1	NPO	5.0	3.0	2.5±1.0	.58±.02
2R0BCR050D	2	NPO	5.0	3.0	2.5±1.0	.58±.02
3R0BCR050D	3	NPO	5.0	3.0	2.5±1.0	.58±.02
4R0BCR050D	4	NPO	5.0	3.0	2.5±1.0	.58±.02
5R0BCR050D	5	NPO	5.0	3.0	2.5±1.0	.58±.02
6R0BCR050D	6	NPO	5.0	3.0	2.5±1.0	.58±.02
7R0BCR050D	7	NPO	5.0	3.0	2.5±1.0	.58±.02
8R0BCR050D	8	NPO	5.0	3.0	2.5±1.0	.58±.02
10R0BCR050K	10	NPO	5.0	3.0	2.5±1.0	.58±.02
12R0BCR050K	12	NPO	5.0	3.0	2.5±1.0	.58±.02
13R0BCR050K	13	NPO	5.0	3.0	2.5±1.0	.58±.02
15R0BCR050K	15	NPO	5.0	3.0	2.5±1.0	.58±.02

ic [®] PART NUMBER	Capacitance pf	Temp. Char.	D Max.	T Max.	S	d
18R0BCR050K	18	NPO	5.0	3.0	2.5±1.0	.58±.02
20R0BCR050K	20	NPO	5.0	3.0	2.5±1.0	.58±.02
22R0BCR050K	22	N750	5.0	3.0	2.5±1.0	.58±.02
27R0BCR050K	27	N750	5.0	3.0	2.5±1.0	.58±.02
30R0BCR050K	30	N750	5.0	3.0	2.5±1.0	.58±.02
33R0BCR050K	33	N750	5.0	3.0	2.5±1.0	.58±.02
39R0BCR050K	39	N750	5.0	3.0	2.5±1.0	.58±.02
40R0BCR050K	40	N750	5.0	3.0	2.5±1.0	.58±.02
43R0BCR050K	43	N750	5.0	3.0	2.5±1.0	.58±.02
45R0BCR050K	45	N750	5.0	3.0	2.5±1.0	.58±.02
47R0BCR050K	47	N750	5.0	3.0	2.5±1.0	.58±.02
50R0BCR050K	50	N1000	5.0	3.0	2.5±1.0	.58±.02

Convert to inches, divide by 25.4

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ic ® PART NUMBER	Capacitance pf	Temp. Char.	D Max.	T Max.	S	d
55BCR050K	55	N1000	5.0	3.0	2.5±1.0	.58±.02
56BCR050K	56	N1000	5.0	3.0	2.5±1.0	.58±.02
60BCR050K	60	N1000	5.0	3.0	2.5±1.0	.58±.02
65BCR050K	65	N1000	5.0	3.0	2.5±1.0	.58±.02
68BCR050K	68	N1000	5.0	3.0	2.5±1.0	.58±.02
70BCR050K	70	N1000	5.0	3.0	2.5±1.0	.58±.02
75BCR050K	75	N1000	5.0	3.0	2.5±1.0	.58±.02
82BCR050K	82	N1000	5.0	3.0	2.5±1.0	.58±.02
85BCR050K	85	N1000	5.0	3.0	2.5±1.0	.58±.02
90BCR050K	90	N1000	5.0	3.0	2.5±1.0	.58±.02
101BCR050K	100	N1000	5.0	3.0	2.5±1.0	.58±.02
111BCR050K	110	N1000	5.0	3.0	5.0±1.5	.47±.02
121BCR050K	120	N1000	5.0	3.0	5.0±1.5	.47±.02
131BCR050K	130	N1000	5.0	3.0	5.0±1.5	.47±.02
141BCR050K	140	N1000	5.0	3.0	5.0±1.5	.47±.02
151BCR050K	150	N1000	5.0	3.0	5.0±1.5	.47±.02
181BCR050K	180	Y5E	5.0	3.0	5.0±1.5	.47±.02
201BCR050K	200	N1000	5.0	3.0	5.0±1.5	.47±.02
221BCR050K	220	Y5E	5.0	3.0	5.0±1.5	.47±.02
251BCR050K	250	Y5E	5.0	3.0	5.0±1.5	.47±.02
271BCR050K	270	Y5E	5.0	3.0	5.0±1.5	.47±.02
281BCR050K	280	Y5E	5.0	3.0	5.0±1.5	.47±.02
301BCR050K	300	Y5E	5.0	3.0	5.0±1.5	.47±.02
331BCR050K	330	Y5E	5.0	3.0	5.0±1.5	.47±.02
351BCR050K	350	Y5E	5.0	3.0	5.0±1.5	.47±.02
361BCR050K	360	Y5E	5.0	3.0	5.0±1.5	.47±.02
371BCR050K	370	Y5E	5.0	3.0	5.0±1.5	.47±.02
391BCR050K	390	Y5E	5.0	3.0	5.0±1.5	.47±.02
401BCR050K	400	Y5E	5.0	3.0	5.0±1.5	.47±.02
471BCR050K	470	Y5E	6.0	3.0	5.0±1.5	.47±.02
501BCR050K	500	Y5E	6.0	3.0	5.0±1.5	.47±.02
561BCR050K	560	Y5E	6.0	3.0	5.0±1.5	.47±.02
601BCR050K	600	Y5E	6.0	3.0	5.0±1.5	.47±.02
681BCR050K	680	Y5E	6.0	3.0	5.0±1.5	.47±.02

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