

BQG series Quartz CRYSTALS

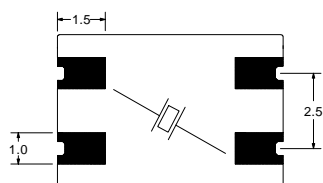
LOW PROFILE, SMD TYPE HOLDER



- Surface mount package
- Low profile (1.3mm)
- Tight tolerance (± 10 ppm)
- Tape & Reel (2k/reel)

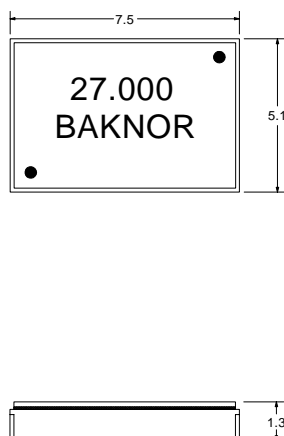
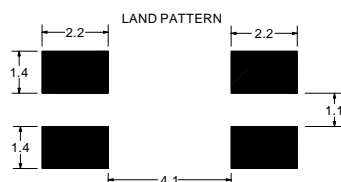
ELECTRICAL SPECIFICATIONS

Frequency Range	10.0 ~ 150.0 MHz
Frequency Tolerance @ 25°C	$\pm 10, \pm 20, \pm 50$ ppm(std)
Operating Temperature Range	-10°C to +60°C (std)
Frequency Stability	$\pm 5, \pm 10, \pm 20, \pm 50$ ppm(std)
Aging @25°C	$< \pm 5$ ppm/year max.
Load Capacitance	10 to 32pF
Drive Level	50mW max.
Shunt Capacitance	2.0 ~ 4.0 typ., 7.0pF max.
Reflow Soldering Condition	10 seconds max. @+260°C
Storage Temperature	-30 to +85°C



EQUIVALENT SERIES RESISTANCE & MODE

Frequency Range	ESR (Ω)	Mode
10.0 ~ 10.9 MHz	60 Ω max	Fundamental
11.0 ~ 13.9 MHz	50 Ω max	Fundamental
14.0 ~ 15.9 MHz	40 Ω max	Fundamental
16.0 ~ 40.0 MHz	30 Ω max	Fundamental
35.0 ~ 39.9 MHz	100 Ω max	3rd Overtone
40.0 ~ 49.9 MHz	80 Ω max	3rd Overtone
50.0 ~ 89.9 MHz	50 Ω max	3rd Overtone
90.0 ~ 150.0 MHz	100 Ω max	5th Overtone



BQG	G	1	5	D	5	24M000	T
Load Capacitance							Packaging
S = Series	E = 17pF						Blank = Bulk
A = 10pF	F = 18pF						T = Tape & Reel
B = 12.5pF	G = 20pF						Frequency
C = 15pF	H = 30pF						M = MHz
D = 16pF	I = 32pF						Frequency Stability
Mode of Oscillation							0 = ± 5 ppm
1 = Fundamental							1 = ± 10 ppm
3 = 3rd Overtone							2 = ± 20 ppm
5 = 5th Overtone							5 = ± 50 ppm
Frequency Tolerance							Operating Temperature
1 = ± 10 ppm							D = -10 ~ +60°C
2 = ± 20 ppm							
5 = ± 50 ppm							