


**SPECIFICATION**

Frequency Range	Fundamental	12.0~54.0 MHz	
Motional Resistance		See Table 2	
Load Capacitance (CL)		7-16 pF	
Drive Level		10μW typ., 500μW max.	
Frequency Tolerance @25°C		±10~±30 ppm	
Temperature Stability		See Table 1	
Operating Temperature Range	Standard, Code 27	-20°C~70°C	
	Available, Code 48	-40°C~85°C	
Storage Temperature Range		-40°C~85°C	
Aging		±3 ppm /year max.	
Shunt Capacitance		3 pF	
Reflow Soldering		10s max., 260°C twice or 180s @185°C once	
Packing Unit		1000 pcs. Tape&Reel	

**QUARTZ  
CRYSTAL**  
3.2 x 2.5 mm

**TABLE 1**

S: Standard ; A: Available

Temp. Code	Temp. / ppm	± 10	± 20	± 30	± 50
27	20~70°C	A	A	S	A
48	40~85°C	A	A	A	S

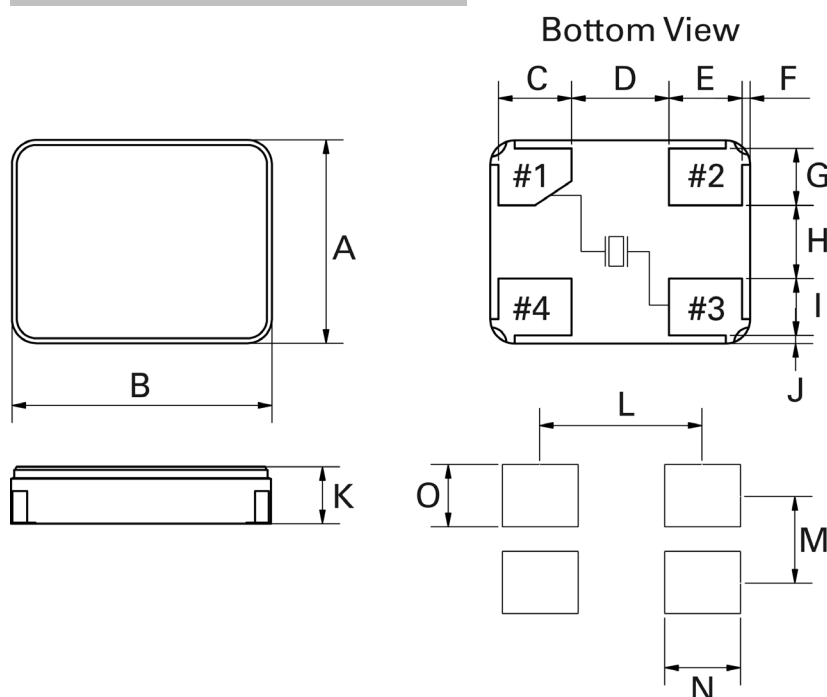
**TABLE 2**

12.0~16.0 MHz: 100 Ω
16.001~26.0 MHz: 70 Ω
26.001~54.0 MHz: 50 Ω

**ORDERING KEY**

Example: FT13A-32.0/16-30-30/27

Type	- Frequency	/CL	-Frequency Tolerance	-Temperature Stability	/Temperature Code
FT13A	Value in MHz	Value in pF s for series	Value in ppm	Value in ppm	27 48

**MECHANICAL DIMENSIONS (MM)**


A	2.5 ± 0.1
B	3.2 ± 0.1
C	0.9
D	1.2
E	0.9
F	0.1
G	0.7
H	0.9
I	0.7
J	0.1
K	0.7
L	2.3
M	1.8
N	1.3
O	1.1