

- Miniature packages available
- Frequency range 1.25MHz to 50.0MHz
- CMOS Output
- Supply Voltage 1.8V and 3.3V
- Integrated Phase Jitter 1ps max
- Fundamental mode crystals for best phase noise performance



### SUPPLY VOLTAGE DEPENDENT SPECIFICATION

Model:	'G' Series						
Input Voltage:	+1.8VDC±5%			+3.3VDC±10%			
Frequency Range:	16.0MHz ~ 50.0MHz			1.25MHz ~ 50.0MHz			
Output Logic 'High':	1.62V min.			2.97V min.			
Output Logic 'Low':	0.18V max.			0.33V max.			
Frequency Deviation Range:	Standard = ±80ppm min.			Standard = ±80ppm min.			
Control Frequency Deviation Centre and Range:	0.9±0.9V			1.65±1.35V			
Output Load:	15pF						
Rise/Fall Time:	4nsec. typ., 6nsec. max. (Measured between 10% ~ 90% of waveform)						
Duty Cycle:	50±10% standard, 50±5% optional (add -S to end of part number)						
RMS Jitter (12kHz to 20MHz):	1.0psec max.						
Start-up Time:	10msec. max.						
Current Consumption:	10~45mA (frequency dependent, e.g. 27MHz @3.3V = 10mA typ.)						
Linearity:	6% typ., 10% max.						
Modulation Bandwidth:	10kHz min., measured at -3dB						
Input Impedance:	5MΩ typ.						
Slope Polarity:	Monotonic and Positive; Increasing control voltage increases output frequency						
Storage Temperature:	-55°C to +125°C						
Aging at +25°C:	±3ppm per year max.						
Output Enable/Disable:	Enable: 70% of Vdd to enable output; 2msec max. enable time Disable: 30% of Vdd to disable output; 100nsec max. disable time						
Phase Noise 27MHz, 3.3V	Offset	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz
	dBc/Hz	-40	-104	-132	-147	-152	-150

### FREQUENCY STABILITY OVER TEMPERATURE

Frequency Stability over Operating Temperature Range	±25ppm	±50ppm	±100ppm
-10°C to +70°C	A	B	C
-40°C to +85°C	D	E	F

### PART NUMBER SCHEDULE

Example: **3G226B-100N-27.000**

#### Supply Voltage

18 = 1.8V  
3 = 3.3V

#### Package

G226 = 2.5 x 2.0mm  
G326 = 3.2 x 2.5mm  
G536 = 5.0 x 3.2mm  
G576 = 7.0 x 5.0mm

#### Stability over temperature range

Refer to table above

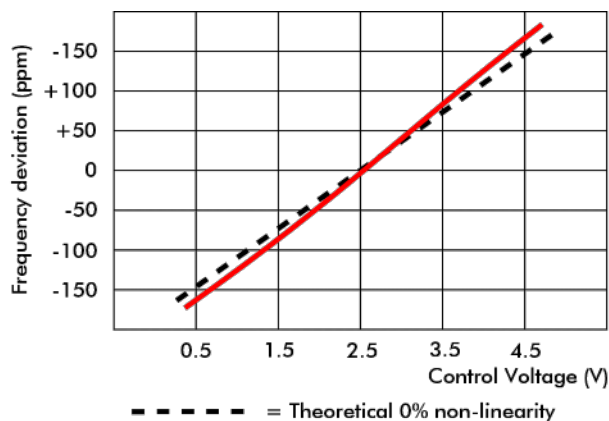
#### Pullability

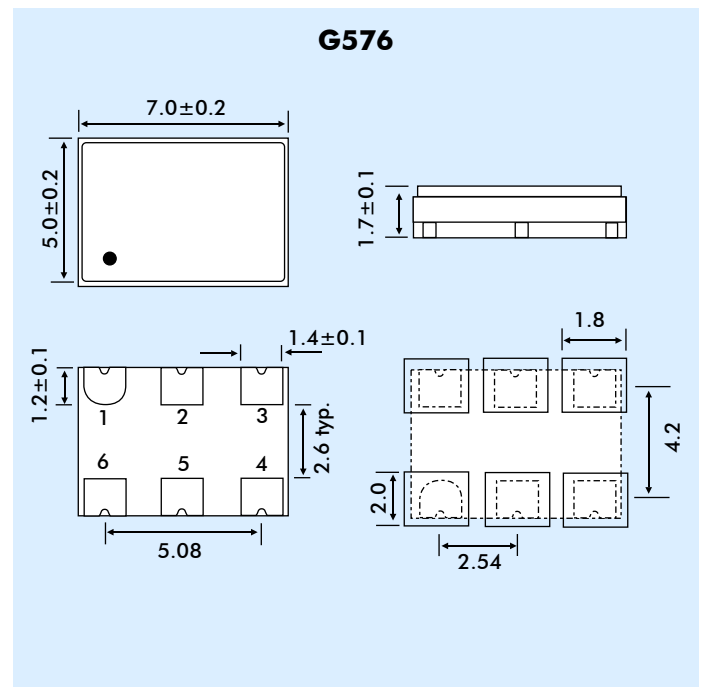
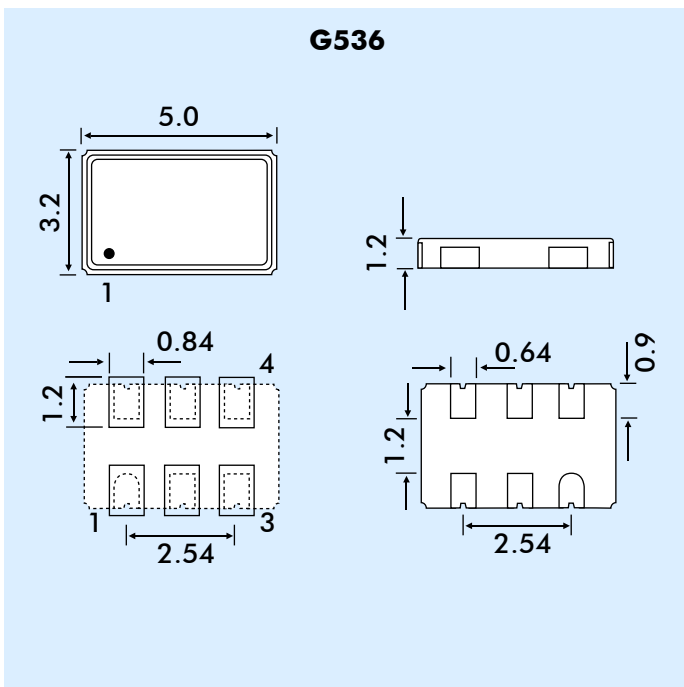
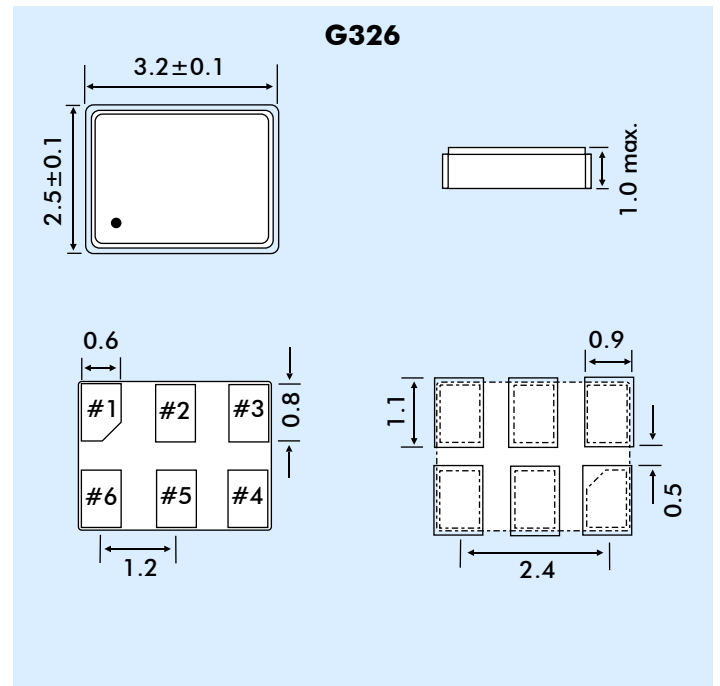
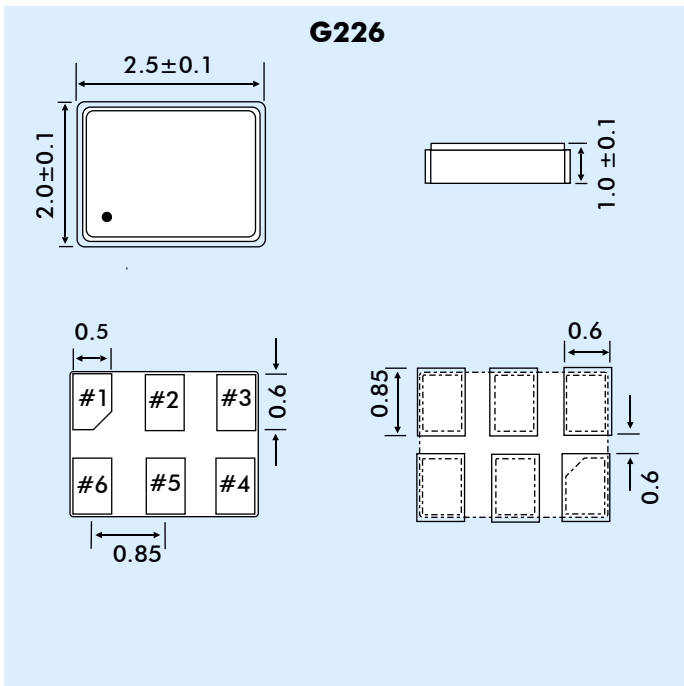
#### Pullability determinant

N = minimum  
M = maximum  
T = Typical

### TRANSFER FUNCTION

Typical response of 3G226-C-150N-27.000  
(at 25°C, positive transfer)





**Pad Connections:**

- Pad 1: Control Voltage
- Pad 2: Output Enable
- Pad 3: Ground
- Pad 4: Output
- Pad 5: No Connection
- Pad 6: Supply Voltage