

Frequency	2.000 MHz ~ 25.000 MHz	
Output Level	TTL / HCMOS	
Level	'0'= 0.4 Vdc Max., '1'=2.4 Vdc Min.	'0'=0.1 Vcc Max., '1'=0.9 Vcc Min.
Duty Cycle	50%±10%	
Rise/ Fall Time	10 ns Max.	
Output Load	2TTL or 20KΩ/5pf	
Stability		
Frequency vs. Temperature	See Table below for Temperature Stability	
Aging @ 25°C	± 1.0 ppm / year Max	
Frequency vs. Voltage	±0.1 ppm max / ±5% change	
Frequency vs. Load	±0.1 ppm max	
Tolerance	±0.3ppm max @ 25°C	
Frequency Adjustment Range	± 3 ppm min /Internal Trimmer	
Supply Voltage	5.0 Vdc ±5%	3.3 Vdc ±5%
Current	20 mA max	
Operating Temperature	See Table below for Operating Temperature	
Storage Temperature	-40°C ~ +85°C	

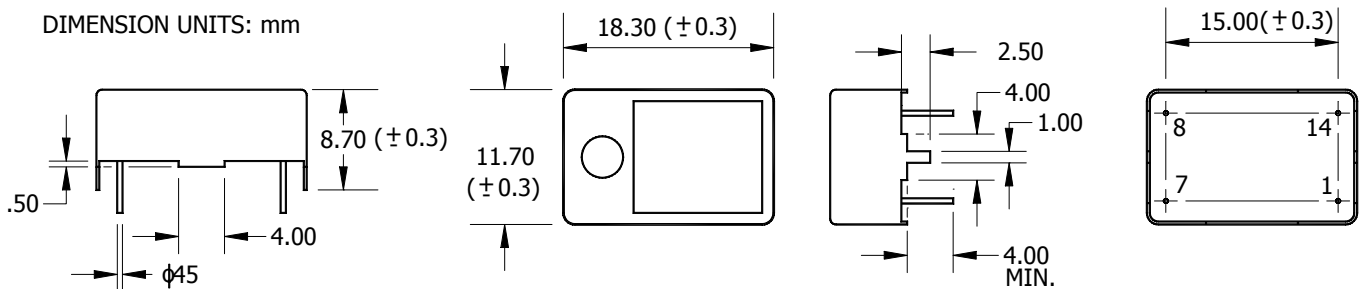
Frequency Stability Graph in ppm

Operating Temp Range	Code	±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0
0~+50°C	F	**	**	**	**	**	**	**	**	**
-10~+60°C	G	**	**	**	**	**	**	**	**	**
-20~+70°C	C	**	**	**	**	**	**	**	**	**
-30~+70°C	J	**	**	**	**	**	**	**	**	**
-30~+75°C	H	**	**	**	**	**	**	**	**	**
-40~+80°C	K		**	**	**	**	**	**	**	**
-40~+85°C	E		**	**	**	**	**	**	**	**

**Part Number Guide**      **Sample Part #:**      **QT20-FR3-20.000**

	Temperature Range	Frequency Stability	Supply Voltage	Frequency
QT20	F = 0°C ~ +50°C	R = ±1.0 ppm	3=3.3 Vdc or 5=5.0 Vdc	20.000 MHz

\*\* Indicates Availability



PIN	CONNECTIONS
1	NC
7	GROUND
8	OUTPUT
14	Vcc

**QVS TECH INC**

6965 El Camino Real, Ste 105 Carlsbad, CA 92009 Phone: 760-929-8677 Fax: 760-929-8077

email: [sales@qvstech.com](mailto:sales@qvstech.com)

Specifications subject to change without notice (Rev A)