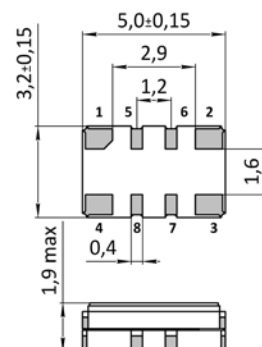
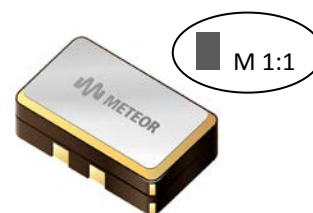


Electrical Performance

Parameter	Units	Value	
		GK323-1-TK (TCXO)	GK323-1-UTK (VCTCXO)
Frequency range	MHz	16 to 45	
Frequency tolerance	ppm	-	±1.5
Temperature range	°C (code)	-10 ... 60 (A) -30 ... 60 (B) -40 ... 70 (V) -40 ... 85 (C)	
Output Level: - Output waveform (code) - Output voltage - Output Level (Sine Wave)	V	Sine wave (S) 0.8 min	
Phase Noise, max:		@ 10 Hz @ 100 Hz @ 1 kHz @ 10 kHz	
	dBc/Hz	-80 -110 -130 -143	
Tuning Range, $U_0 = (0 \dots 0.6 \dots \text{Up})$ V	ppm	-	-3 ... 5
Stability:			
- Power Supply, ±5% change	ppm	±0.2 max	
- Load :	ppm	±0.2 max	
- 10 kohm±10%, 10pF±10%	ppm	±0.2 max	
Supply voltage (U_p):	V	3.3±5%; 5.0±5%	
Supply Current:			
16 - 20 MHz	mA	6 max	
20 - 45 MHz	mA	8.5 max	



Ceramic package with metal lid
Plating: Ni+Au(0,3...1 µm)

Pinout

1	TCXO - Ground VCTCXO - Control Voltage
2	Ground
3	Output
4	Supply Voltage
5, 6, 7, 8	Make No Connection

Frequency Stability (Over Operating Temperature range)

For GK323-1-TK (offset from nominal freq. including initial accuracy):

Temperature range, °C (code)	Stability, ppm (code)								
	±1.3 (A1)	±1.5 (B1)	±1.75 (V1)	±2.0 (G1)	±2.5 (D1)	±3.0 (E1)	±3.5 (J1)	±4.0 (I1)	±6.0 (K1)
-10 ... 60 (A)	+	+	+	+	+	+	+	+	+
-30 ... 60 (B)		+	+	+	+	+	+	+	+
-40 ... 70 (V)			+	+	+	+	+	+	+
-40 ... 85 (C)				+	+	+	+	+	+

For GK323-1-UTK (offset from average freq. in range operating temp.):

Temperature range, °C (code)	Stability, ppm (code)								
	±0.3 (A)	±0.5 (B)	±0.75 (V)	±1.0 (G)	±1.5 (D)	±2.0 (E)	±2.5 (J)	±3.0 (I)	±5.0 (K)
-10 ... 60 (A)	+	+	+	+	+	+	+	+	+
-30 ... 60 (B)		+	+	+	+	+	+	+	+
-40 ... 70 (V)			+	+	+	+	+	+	+
-40 ... 85 (C)				+	+		+	+	+

Environmental

Shock:

test Ea. 1500 gn acceleration for 0.1-0.2 ms duration, half sine pulse, 2 shocks in each direction along three mutually perpendicular axes at octave per minute

Vibration:

test Fc. 50Hz 2.0 mm displacement, 1-2000 Hz at 20 gn, 8 hours in each of three mutually perpendicular axes at 1 octave per minute

Storage temperature:

-40°C to 85°C

Long Term Frequency Stability

- ±5 ppm max for 20 years (+60 °C)
- ±2 ppm max in 1st year, frequency >20 MHz
- ±1 ppm max in 1st year, frequency ≤20 MHz

Ordering Information

TCXO GK323-1-TK-CG1-40M-3.3

Product:
GK323-1-TK
GK323-1-UTK

Temperature range:
A(-10...60); B(-30...60);
V(-40...70); C(-40...85);

Frequency Stability Over Temperature range:
For GK323-1-TK: A1 (±1.3); B1 (±1.5); V1 (±1.75);
G1 (±2); D1 (±2.5); E1 (±3); J1 (±3.5); I1 (±4); K1 (±6)
For GK323-1-UTK: A (±0.3); B (±0.5); V (±0.75);
G (±1); D (±1.5); E (±2); J (±2.5); I (±3); K (±5)

Frequency
in MHz

Voltage
Options
3.3 (3.3V)
5 (5V)