

Features

- Frequency range : 1MHz to 170MHz
- SMD seam sealing ceramic package
- Supply voltage : 1.8V, 2.5V, 3.3V, 5V
- CMOS output
- Tri-state function available
- External dimensions (mm)
L : 7.0 x W : 5.0 x H : 1.3
- RoHS compliant & Pb free

Applications

- Networking, Server, Storage
- Wireless communications
- Fibre channel, Ethernet, SATA, SAS, PCI-E, USB, WLAN, xDSL, xPON
- PC mainboard, Notebook, HDD, SSD, Graphics card, Computer peripherals
- Audio, Video, Gaming, Printer, DSC, IP CAM, Consumer products

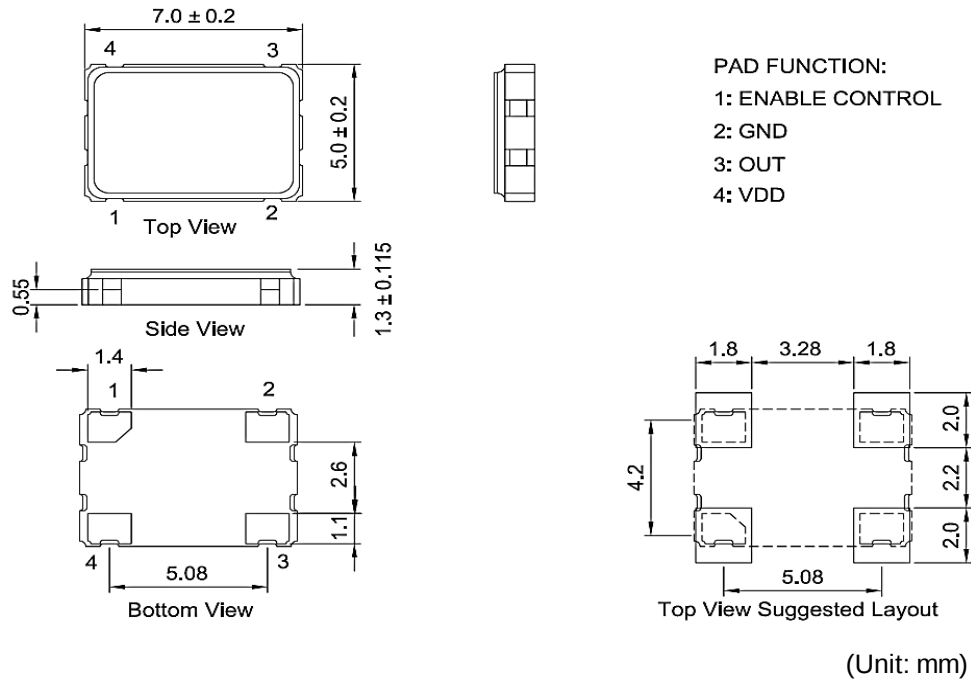
Electrical Characteristics

Item	QTM750	Conditions
Frequency Range (F_0)	1MHz ~ 170MHz	
Frequency Stability (F_{stab})	$\pm 50\text{ppm}$, $\pm 25\text{ppm}$	-10°C ~ +70°C; Note [1]
	$\pm 50\text{ppm}$, $\pm 30\text{ppm}$, $\pm 25\text{ppm}$	-40°C ~ +85°C; Note [1]
Operating Temperature Range (T_{OTR})	-10°C ~ +70°C	
	-40°C ~ +85°C	
Supply Voltage (V_{DD})	1.8V, 2.5V, 3.3V, 5.0V	$V_{DD} \pm 10\%$
Current Consumption (I_{DD})	10 mA Max.	1MHz ~ 75MHz
	20 mA Max.	75MHz ~ 170MHz
Output Type	CMOS	
Output Load (C_L)	15 pF	
Output Voltage High (V_{OH})	90% V_{DD} Min.	
Output Voltage Low (V_{OL})	10% V_{DD} Max.	
Rise & Fall Time (T_r / T_f)	8 ns Max.	10% ~ 90% of V_{DD}
Duty Cycle	40% ~ 60%	
Start-up Time	5 ms Max.	
Enable Voltage High, Logic "1"	70% V_{DD} Min.	Input to Pin1 Note [2]
Enable Voltage Low, Logic "0"	30% V_{DD} Max.	
Phase Jitter, RMS	1 ps Max.	Note [3]
Aging (F_{aging})	± 3 ppm Max.	at 25°C $\pm$ 3°C, first year
Storage Temperature Range (T_{STR})	-55°C ~ +125°C	

Notes:

- [1] Inclusive of frequency tolerance at 25°C, 1st year aging at 25°C, and variations over operating temperature, supply voltage, and load.
- [2] Output will be enabled if Pin1 is Logic "1" or open; Output will be disabled if Pin1 is Logic "0".
- [3] Freq. 10MHz~40MHz, integrated 12kHz~5MHz; Freq. >40MHz, integrated 12kHz~20MHz.

Dimensions



Ordering Information

QTM750 - 30.000M B E - T

Frequency in Hz

Please contact us for available frequencies

Packaging Method

T Tape & Reel

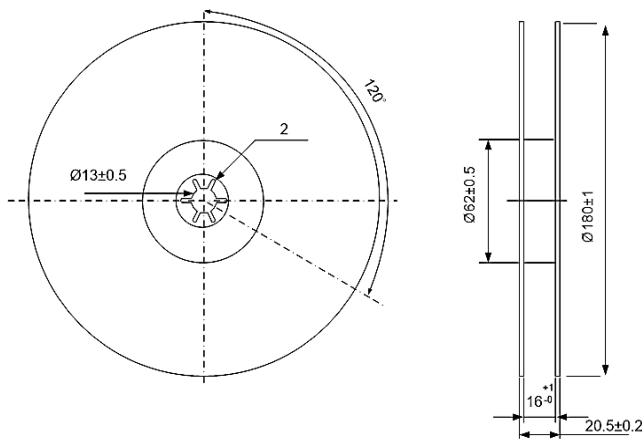
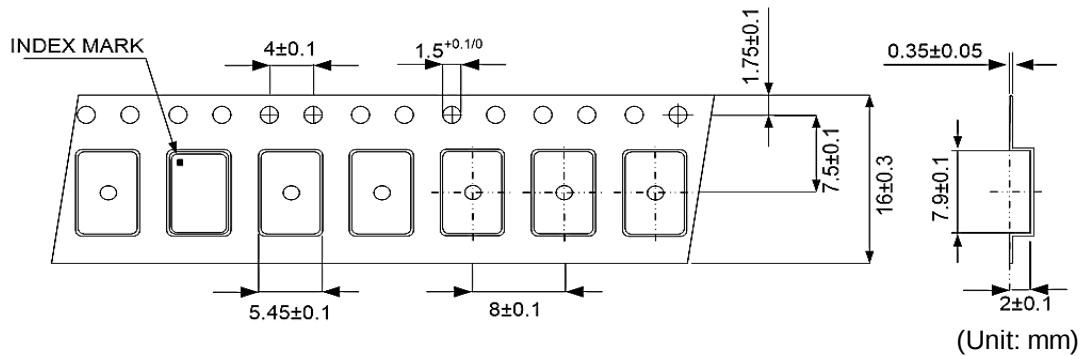
Supply Voltage

A	5.0 V
B	3.3 V
C	2.5 V
D	1.8 V

Frequency Stability

A	± 25 ppm (-10°C ~ +70°C)
B	± 50 ppm (-10°C ~ +70°C)
D	± 25 ppm (-40°C ~ +85°C)
E	± 50 ppm (-40°C ~ +85°C)
G	± 30 ppm (-40°C ~ +85°C)

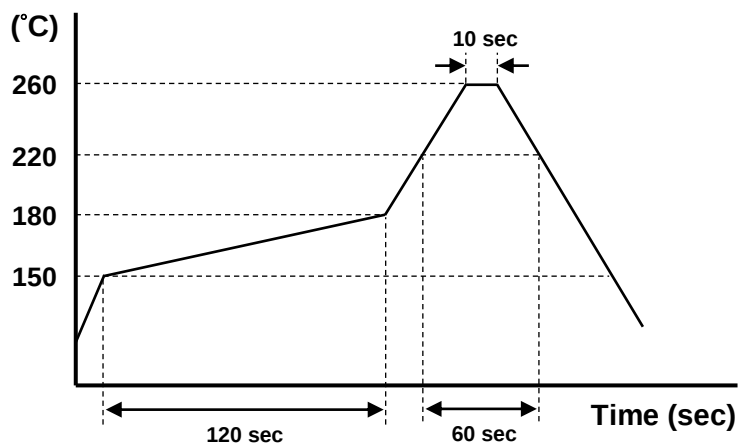
Packing



Reflow Profile

Solder melting point : 220°C $\pm$ 10°C, 60 sec. Min.

Peak temperature : 260°C $\pm$ 10°C, 10 sec. Min.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TXC Corporation:](#)

[QTM750-133.330MBE-T](#) [QTM750-35.328MBE-T](#) [QTM750-66.6666MBE-T](#) [QTM750-1.544MBE-T](#) [QTM750-12.000MBE-T](#) [QTM750-14.7456MBE-T](#) [QTM750-16.000MBE-T](#) [QTM750-33.3333MBE-T](#) [QTM750-36.000MBE-T](#) [QTM750-4.096MBE-T](#) [QTM750-49.152MBE-T](#) [QTM750-6.000MBE-T](#) [QTM750-7.3728MBE-T](#) [QTM750-8.192MBE-T](#) [QTM750-1.8432MBE-T](#) [QTM750-100.000MBE-T](#) [QTM750-125.000MBE-T](#) [QTM750-125.000MDE-T](#) [QTM750-133.000MBE-T](#) [QTM750-133.000MDE-T](#) [QTM750-24.576MBE-T](#) [QTM750-25.000MDE-T](#) [QTM750-27.000MBE-T](#) [QTM750-27.000MDE-T](#) [QTM750-40.000MBE-T](#) [QTM750-50.000MBE-T](#) [QTM750-50.000MDE-T](#) [QTM750-75.000MBE-T](#) [QTM750-75.000MDE-T](#) [QTM750-8.000MBE-T](#) [QTM750-1.544MBA-T](#) [QTM750-133.330MBB-T](#) [QTM750-14.31818MBB-T](#) [QTM750-14.7456MBB-T](#) [QTM750-16.000MBB-T](#) [QTM750-18.432MBA-T](#) [QTM750-18.432MBB-T](#) [QTM750-20.000MAB-T](#) [QTM750-25.000MAB-T](#) [QTM750-3.6864MBA-T](#) [QTM750-3.6864MBB-T](#) [QTM750-30.000MAB-T](#) [QTM750-33.33330MBA-T](#) [QTM750-33.33330MBB-T](#) [QTM750-35.328MBA-T](#) [QTM750-35.328MBB-T](#) [QTM750-4.000MBA-T](#) [QTM750-49.152MBA-T](#) [QTM750-25.000MBD-T](#) [QTM750-24.000MBD-T](#) [QTM750-48.000MBB-T](#) [QTM750-54.000MBD-T](#) [QTM750-66.6666MBE-T](#) [QTM750-1.544MCD-T](#) [QTM750-10.000MDE-T](#) [QTM750-120.000MDE-T](#) [QTM750-18.432MCE-T](#) [QTM750-24.000MBE-T](#) [QTM750-25.000MCE-T](#) [QTM750-50.000MBD-T](#) [QTM750-106.250MBE-T](#) [QTM750-16.384MCE-T](#) [QTM750-30.000MBE-T](#) [QTM750-4.000MCE-T](#) [QTM750-4.096MBD-T](#) [QTM750-8.000MDE-T](#) [QTM750-133.000MCE-T](#) [QTM750-16.384MBE-T](#) [QTM750-2.048MCE-T](#) [QTM750-24.000MDE-T](#) [QTM750-24.576MCE-T](#) [QTM750-25.000MBE-T](#) [QTM750-30.000MDE-T](#) [QTM750-66.000MCE-T](#) [QTM750-70.656MBD-T](#) [QTM750-1.544MBD-T](#) [QTM750-150.000MBE-T](#) [QTM750-24.000MCE-T](#) [QTM750-33.333MCE-T](#) [QTM750-60.000MCE-T](#) [QTM750-125.000MCE-T](#) [QTM750-16.384MBD-T](#) [QTM750-2.048MCD-T](#) [QTM750-2.048MDD-T](#) [QTM750-32.000MBE-T](#) [QTM750-50.000MDD-T](#) [QTM750-106.250MCE-T](#) [QTM750-16.384MCD-T](#) [QTM750-24.576MDE-T](#) [QTM750-30.000MCE-T](#) [QTM750-66.000MBE-T](#) [QTM750-66.000MDE-T](#) [QTM750-77.760MDE-T](#) [QTM750-8.000MCE-T](#) [QTM750-1.544MDD-T](#) [QTM750-10.000MCE-T](#) [QTM750-14.31818MCE-T](#) [QTM750-20.000MBE-T](#) [QTM750-20.000MCE-T](#) [QTM750-32.768MCE-T](#)