

Features

Frequency range: 10MHz to 114MHz

Ceramic SMD package

Seam sealing

External dimensions (mm) L: 3.2 x W: 2.5 x H: 0.7 RoHS compliant & Pb free

Applications

Bluetooth, Wireless LAN Cellular phone, Pager, DSC Display, TV

Computer peripherals Consumer products

Electrical Characteristics

Item		7M	Conditions	
Frequency Range	F ₀	10MHz ~ 114MHz		
Frequency Tolerance	F _{tol}	±30ppm, ±20ppm, ±10ppm	at 25°C	
	Е	±30 ppm		
		±20 ppm	-20°C ~ +70°C	
- O. 1.111		±10 ppm		
Frequency Stability over Operating Temperature Range		±10 ppm	-30°C ~ +85°C	
(refer to 25°C)	F _{stab}	±30 ppm		
(Telef to 25 O)		±20 ppm	-40°C ~ +85°C	
		±15 ppm		
		±60 ppm	-40°C ~ +125°C	
Operating Temperature Range	T _{OTR}	-20°C ~ +70°C		
		-40°C ~ +85°C		
		-40°C ~ +125°C		
Shunt Capacitance	C ₀	3pF Max.		
Drive Level	D_L	1 ~ 200μW (100μW Typ.)		
Load Capacitance	C _L	6pF, 8pF, 9pF, 10pF 12pF, 16pF, 18pF, 20pF		
Aging (at 25°C ± 3°C, first year)	F _{aging}	±3ppm Max.	Note [1]	
Storage Temperature Range T _{ST}		-55°C ~ +125°C		

Notes:

[1] Please contact us for low aging +/-1ppm grade crystals.

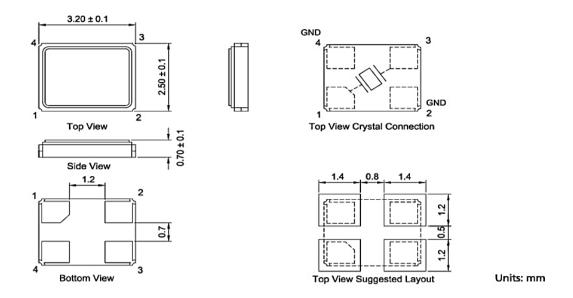
Motional Resistance (ESR)

Fundamental							
10 ~ 12 MHz	150Ω Max.						
12 ~ 16 MHz	80Ω Max.						
16 ~ 20 MHz	60Ω Max.						
20 ~ 64 MHz	50Ω Max.						

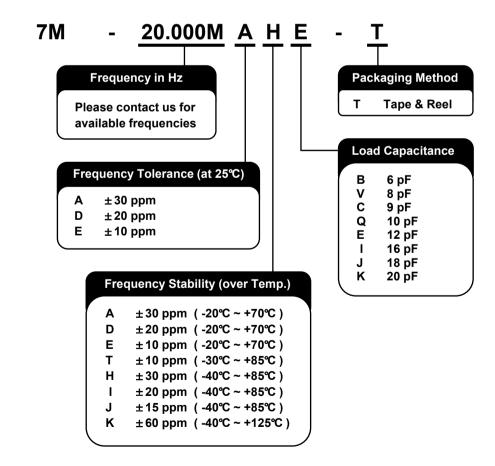
3rd Overtone						
60 ~ 80 MHz	80Ω Max.					
80 ~ 114 MHz	60Ω Max.					



Dimensions

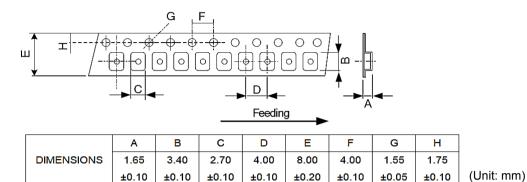


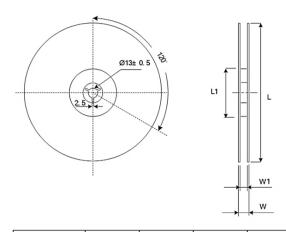
Ordering Information





Packing



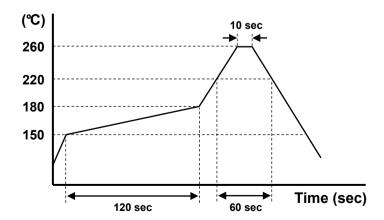


	L	L1	W	W1	
DIMENSIONS	178	60.2	11.5	8	
	±1.00	±0.50	±0.2	±0.1	(Uı

(Unit: mm)

Reflow Profile

Solder melting point : $220^{\circ}\text{C} \pm 10^{\circ}\text{C}$, 60 sec. Min. Peak temperature : $260^{\circ}\text{C} \pm 10^{\circ}\text{C}$, 10 sec. Min.



Mouser Electronics

Authorized Distributor

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TXC Corporation:

7M-12.000MEEQ-T 7M-12.288MEEQ-T 7M-13.560MEEQ-T 7M-16.000MEEQ-T 7M-16.384MEEQ-T 7M-18.432MEEQ-T 7M-19.200MEEQ-T 7M-20.000MEEQ-T 7M-24.000MEEQ-T 7M-24.576MEEQ-T 7M-25.000MEEQ-T 7M-26.000MEEQ-T 7M-27.000MEEQ-T 7M-27.120MEEQ-T 7M-30.000MEEQ-T 7M-32.000MEEQ-T 7M-36.000MEEQ-T 7M-38.400MEEQ-T 7M-40.000MEEQ-T 7M-48.000MEEQ-T 7M-22.000MEEQ-T 7M-28.63636MEEQ-T 7M-44.000MEEQ-T 7M-25.000MDHJ-T 7M-26.000MEEC-T 7M-40.000MFIQ-T 7M-25.000MDIY-T 7M-30.400MEEQ-T 7M-25.000MDHQ-T 7M-37.400MEEJ-T 7M-48.000MEIV-T 7M-50.000MEIV-T 7M-26.000MEIQ-T 7M-16.000MEEK-T 7M-32.000MEIQ-T 7M-10.000MEHE-T 7M-24.000MDHQ-T 7M-24.000MEHQ-T 7M-114.285MDIJ-T 7M-16.000MDIE-T 7M-16.000MDIV-T 7M-26.000MDHV-T 7M-32.000MEEI-T 7M-13.000MEEQ-T 7M-28.800MEIK-T 7M-14.7456MDHJ-T 7M-114.285MCFJ-T 7M-14.7456MDHQ-T 7M-24.000METI-T 7M-54.000METJ-T 7M-12.000MEHE-T 7M-25.000MDHC-T 7M-40.000METI-T 7M-54.000METC-T 7M-37.400METE-T 7M-24.000METJ-T 7M-24.000METV-T 7M-54.000METI-T 7M-40.000METV-T 7M-12.000MEHC-T 7M-25.000MDHE-T 7M-40.000METE-T 7M-25.000MDHI-T 7M-37.400METJ-T 7M-24.000METE-T 7M-25.000MDHV-T 7M-37.400METI-T 7M-12.000MEHV-T 7M-40.000METJ-T 7M-54.000METE-T 7M-54.000METV-T 7M-40.000METC-T 7M-24.000METC-T 7M-37.400METC-T 7M-37.400METV-T 7M-12.000MEHJ-T 7M-12.000MEHI-T 7M-40.000MEIE-T 7M-24.000MEEK-T 7M-24.000MEIJ-T 7M-25.000MEIQ-T 7M-12.000MEEC-T 7M-12.000MEIE-T 7M-12.288MEIV-T 7M-12.800MEIK-T 7M-12.800MEIQ-T 7M-13.000MEEC-T 7M-49.152MEEQ-T 7M-50.000MEEI-T 7M-50.000MEEQ-T 7M-50.000MEIE-T 7M-54.000MEIV-T 7M-48.000MEEE-T 7M-48.000MEEI-T 7M-48.000MEEV-T 7M-48.000MEIE-T 7M-48.000MEIJ-T 7M-48.000METQ-T 7M-40.000MEEK-T 7M-40.000MEEV-T