

Cylindrical Crystal Unit SMD 8.8 x 3.2mm Type

MXTR series

MERITEK

FEATURE

- Surface Mount
- Applications: Consumer Electronics, Microprocessor Clocks



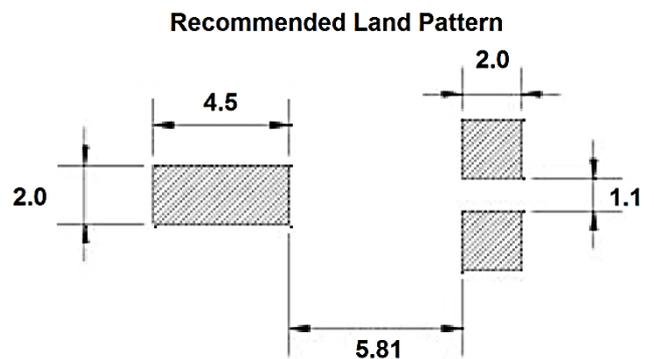
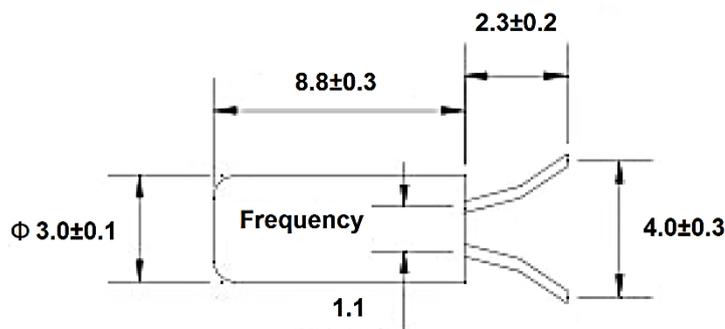
PART NUMBERING SYSTEM

MXTR **F** **H** **J** **A** **20M0**
(1) (2) (3) (4) (5) (6)



No	Item	Code	Description	Series Reference
(1)	Meritek Series	MXTR	Crystal Unit	Cylindrical SMD Crystal 8.8x3.2mm
(2)	Load Capacitance	F	F: 20pF	E: 18pF, R: Series Resonance (see options)
(3)	Frequency Tolerance	H	H: ± 30 ppm	H: ± 30 ppm, J: ± 50 ppm (see options)
(4)	Frequency Stability	J	J: ± 50 ppm	J: ± 50 ppm
(5)	Operating Temp.	A	A: $-10 \sim +60^\circ\text{C}$	B: $0 \sim +70^\circ\text{C}$, A: $-10 \sim +60^\circ\text{C}$ (see options)
(6)	Frequency	20M0	20M0: 20.00MHz	4M0 ~ 70M0 (M denotes decimal point)

DIMENSIONS AND RECOMMENDED PATTERN



(Unit:mm)

AVAILABLE OPTIONS

Parameters	Part Number Options
Load Capacitance	A: 10pF, B: 12pF, C: 15pF, D: 16pF, E: 18pF, F: 20pF, K: 22pF, G: 25pF, H: 30pF, L: 32pF
Frequency Tolerance	H: ± 30 ppm, J: ± 50 ppm
Operating Temperature	B: $0 \sim +70^\circ\text{C}$, A: $-10 \sim +60^\circ\text{C}$

Note: Custom options available. Contact Meritek for more information.

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ELECTRICAL CHARACTERISTICS

Parameters		Characteristic
Nominal Frequency Range		4.000 ~ 70.000 MHz
Operation Mode	Fundamental	4.000 ~ 32.000 MHz
	3 rd Overtone	32.001 ~ 70.000 MHz (standard frequencies)
Load Capacitance		16.0 pF (see options)
Frequency Tolerance (at 25°C)		±30 ppm (see options)
Freq Stability over Oper Temp.		±50 ppm
Operating Temperature		-10 ~ +60°C (see options)
Storage Temperature		-40 ~ +85°C
Drive Level		100 µW max.
Aging		±5 ppm / year
Shunt Capacitance		5.0 pF max.
Insulation Resistance		500 MΩ min. (@100Vdc ±15V)
Equivalent Series Resistance	4.0 ~ 5.999 Fundamental	150 Ω max.
	6.0 ~ 9.999 Fundamental	100 Ω max.
	10.0 ~ 32.000 Fundamental	50 Ω max.
	32.001 ~ 35.999 3 rd OT	100 Ω max.
	36.0 ~ 70.000 3 rd OT/AT	80 Ω max.

*Specifications subject to change without notice.