



# **Surface-Mount Crystal**



The XT22 series is an ultra miniature package crystal with dimensions 2.5 mm  $\times$  2.0 mm  $\times$  0.65 mm. It is primarily used in notebook, mobile communications, telecom devices, industrial controls, and consumer platforms.

#### **FEATURES**

- Size: 2.5 x 2.0 x 0.65 (mm)
- Small package
- Frequencies from 12 MHz to 60 MHz
- Tape and reel packaging
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

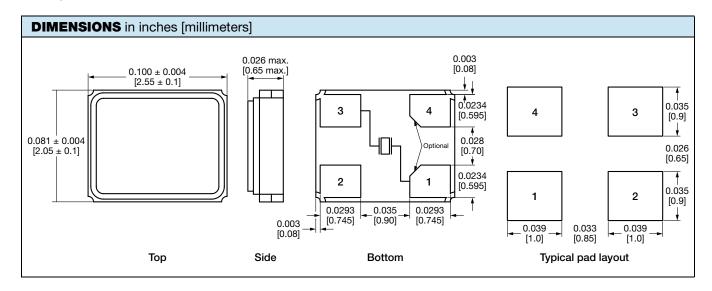


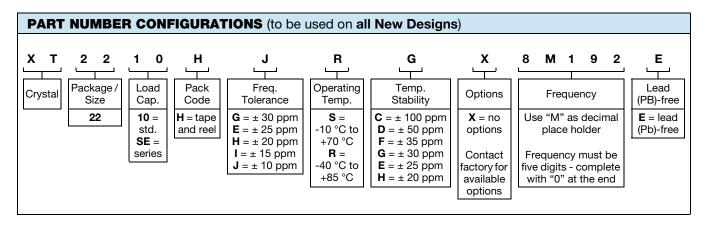
ROHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.	
Frequency range	Fo		MHz	12	-	60	
Frequency tolerance	ΔF/F <sub>O</sub>	At 25 °C	ppm	-	± 10, ± 15, ± 20, ± 25, ± 30	-	
Temperature stability	T <sub>C</sub>	Ref. to 25 °C	ppm	-	$\pm 20, \pm 25, \pm 30, \\ \pm 35, \pm 50, \pm 100$	-	
Operating temperature range	T <sub>OPR</sub>	Standard	°C	0	-	+70	
		Optional	°C	-40	=	+85	
Storage temperature range	T <sub>STG</sub>		°C	-55	=	+125	
Shunt capacitance	C <sub>0</sub>		pF	-	=	7	
Load capacitance	C <sub>L</sub>	Customer specified	pF	8	=	Series	
Insulation resistance	I <sub>R</sub>	100 V <sub>DC</sub>	MΩ	500	-	-	
Drive level	D <sub>L</sub>		μW	-	10	200	
Aging	Fa	At 25 °C, per year	ppm	-3	-	+3	

EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)					
FREQUENCY RANGE (MHz)	MAX. ESR (Ω)				
12.000 to 15.999	120				
16.000 to 25.999	80				
26.000 to 54.000	50				

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PART MARKING	
Line 1:	V25.00 (frequency)
Line 2:	YYWWA (date code / factory)



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