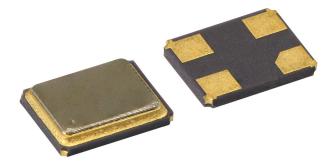


## **Surface-Mount Crystal**



The XT11 series is a miniature package crystal with dimensions 1.6 mm x 1.2 mm x 0.39 mm. It is primarily used in notebook, mobile communications, telecom devices, hearing aides, industrial controls, and consumer platforms.

## FEATURES

- Size: 1.6 x 1.2 x 0.39 (mm)
- Miniature SMD package
- Frequencies from 24 MHz to 60 MHz
- Tape and reel packaging
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



RoHS COMPLIANT HALOGEN FREE GREEN (5-2008)

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.		
Frequency range	Fo		MHz	24	-	60		
Frequency tolerance	$\Delta F/F_{O}$	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	т	Standard	°C	0	-	+70 +85		
Operating temperature range	T <sub>OPR</sub>	Optional	°C	-40	-			
Storage temperature range	T <sub>STG</sub>		°C	-55	-	+125		
Shunt capacitance	C <sub>0</sub>		pF	-	-	3		
Load capacitance	CL	Customer specified	pF	8	-	Series		
Insulation resistance	I <sub>R</sub>	100 V <sub>DC</sub>	MΩ	500	-	-		
Drive level	DL		μW	-	10	200		
Aging	Fa	At 25 °C, per year	ppm	-3	-	+3		

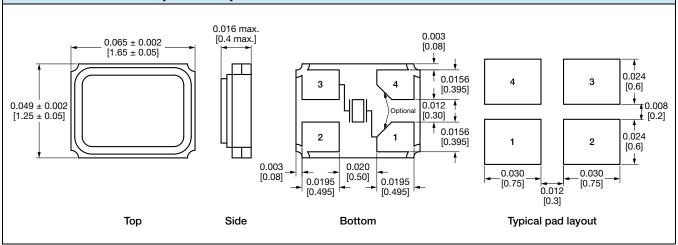
EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)					
FREQUENCY RANGE (MHz)	<b>ΜΑΧ. ESR (</b> Ω)				
24.000 to 31.999	200				
32.000 to 37.999	100				
32.000 to 37.999	80				

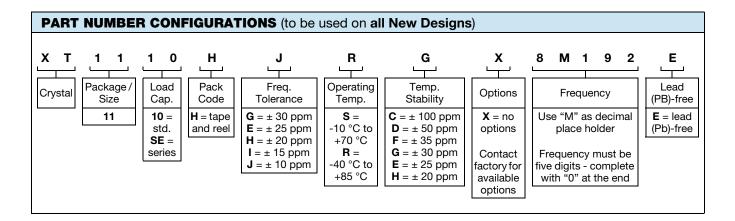


Vishay Dale

XT11

## **DIMENSIONS** in inches [millimeters]





PART MARKING		
Line 1:	V250 (frequency)	
Line 2:	YWWA (date code / factory)	



Vishay

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