



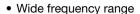
# **Quartz Crystals**



The XT35 is a miniature SMD crystal with 5.0 x 3.2 (mm) ceramic package and a height of 0.8 mm. 12 MHz to 39 MHz frequency makes it widely applied in PDA, GPS, MP3, and portable instruments.

#### **FEATURES**

• Ultra-miniature size: 5.0 x 3.2 x 0.8 (mm)



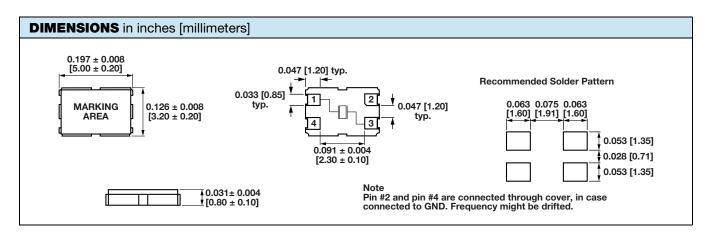
- Seam sealing
- · Emboss taping
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>



RoHS

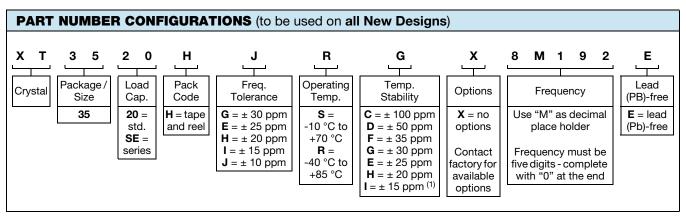
STANDARD ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	Fo		MHz	12.000	-	39.000
Frequency tolerance	ΔF/F <sub>O</sub>	At 25 °C	ppm	-	± 10, ± 15, ± 20, ± 25, ± 30	-
Temperature stability	T <sub>C</sub>	Ref. to 25 °C	ppm	-	± 20, ± 25, ± 30, ± 35, ± 50, ± 100	-
Operating temperature range	T <sub>OPR</sub>		°C	0	-	+70
Storage temperature range	T <sub>STG</sub>		°C	-55	-	+125
Shunt capacitance	C <sub>0</sub>		pF	-	-	7
Load capacitance	CL	Customer specified	pF	10	-	series
Insulation resistance	I <sub>R</sub>	100 V <sub>DC</sub>	ΜΩ	500	-	=
Drive level	$D_L$		μW	10	50	100
Aging	Fa	At 25 °C, per year	ppm	-5	-	+5

EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)						
FREQUENCY RANGE (MHz)	MAX. ESR (Ω)	MODE				
12.000 to 19.999	80	Fundamental				
20.000 to 25.000	70	Fundamental				
25.100 to 39.000	40	Fundamental				



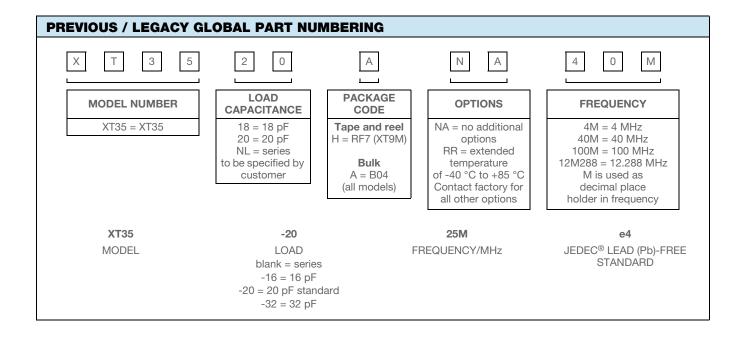






#### Note

Previous / legacy part number information: still valid for existing designs; all New Designs should use the new part configuration above



<sup>(1)</sup> Contact factory for availability



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