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Vishay Dale

XT35

RoHS

COMPLIANT

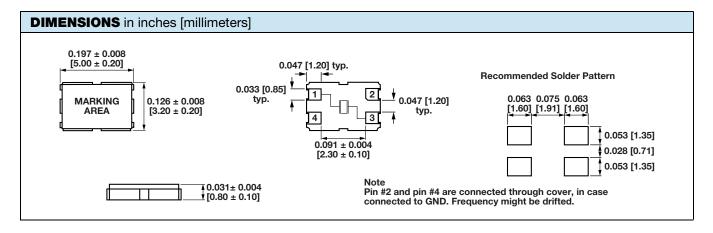
Quartz Crystals

FEATURES

- Ultra-miniature size: 5.0 x 3.2 x 0.8 (mm)
- Wide frequency range
- Seam sealing
- · Emboss taping
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.		
Frequency range	Fo		MHz	12.000	-	25.000		
Frequency tolerance	$\Delta F/F_{O}$	At 25 °C	ppm	-	± 10, ± 15, ± 20, ± 25, ± 30	-		
Temperature stability	T _C	Ref. to 25 °C	ppm	-	± 20, ± 25, ± 30, ± 35, ± 50, ± 100	-		
Operating temperature range	T _{OPR}		°C	0	-	+70		
Storage temperature range	T _{STG}		°C	-55	-	+125		
Shunt capacitance	C ₀		pF	-	-	7		
Load capacitance	CL	Customer specified	pF	10	-	series		
Insulation resistance	I _R	100 V _{DC}	MΩ	500	-	-		
Drive level	DL		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)	ΜΑΧ. ESR (Ω)	MODE				
12.000 to 19.999	80	Fundamental				
20.000 to 25.000	70	Fundamental				



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1 For technical questions, contact: frequency@vishay.com Document Number: 35064

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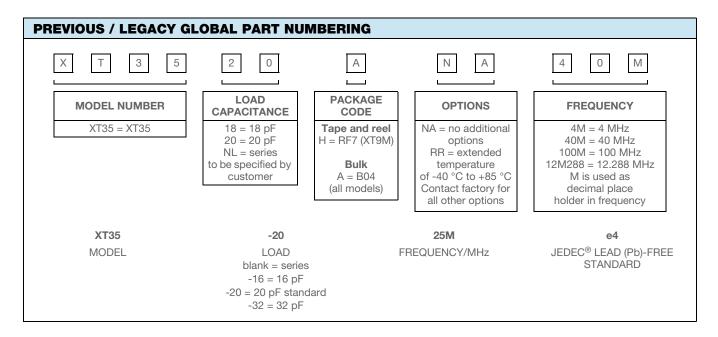
The XT35 is a miniature SMD crystal with 5.0 x 3.2 (mm) ceramic package and a height of 0.8 mm. 12 MHz to 25 MHz frequency makes it widely applied in PDA, GPS, MP3, and portable instruments.

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PART NUMBER CONFIGURATIONS (to be used on all New Designs)									
ХТ 35	2 0	H	J	R	G	×	8 M 1 9 2	E L	
Crystal Package / Size	Load Cap.	Pack Code	Freq. Tolerance	Operating Temp.	Temp. Stability	Options	Frequency	Lead (PB)-free	
35	20 = std. SE =	H = tape and reel	G = ± 30 ppm E = ± 25 ppm H = ± 20 ppm	S = -10 °C to +70 °C	C = \pm 100 ppm D = \pm 50 ppm F = \pm 35 ppm	X = no options	Use "M" as decimal place holder	E = lead (Pb)-free	
	series		$I = \pm 15 \text{ ppm}$ $J = \pm 10 \text{ ppm}$	R = -40 °C to +85 °C	$G = \pm 30 \text{ ppm}$ $E = \pm 25 \text{ ppm}$ $H = \pm 20 \text{ ppm}$	Contact factory for available options	Frequency must be five digits - complete with "0" at the end		

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





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