XT49M

Vishay Dale

www.vishay.com

Note

surface mounting.

Low Profile SMD Type Crystal Units



This part is a miniature AT cut strip crystal unit packaged for

• Not compatible with vapor phase reflow mounting

FEATURES

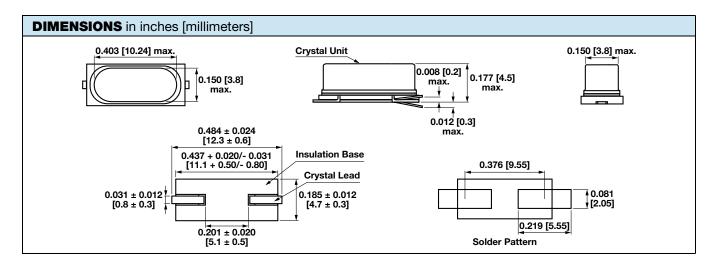
- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- Surface-mount
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

(P Pb	N -fre	3)

RoHS COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.	
Frequency range	Fo		MHz	3.579545	-	66.000	
Frequency tolerance	$\Delta F/F_O$	At 25 °C	ppm	-30	-	+30	
Temperature stability	T _C	Ref. to 25 °C	ppm	-50	-	+50	
Operating temperature range	T _{OPR}		°C	-10	-	+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	-	100	500	
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	FREQUENCY RANGE (MHz)	ΜΑΧ. ESR (Ω)	MODE			
3.579 to 3.999	200	Fundamental/AT	10.000 to 13.999	80	Fundamental/AT			
4.000 to 4.999	150	Fundamental/AT	14.000 to 39.999	50	Fundamental/AT			
5.000 to 5.999	120	Fundamental/AT	40.000 to 66.999	80	3 rd overtone			
6.000 to 9.999	100	Fundamental/AT						



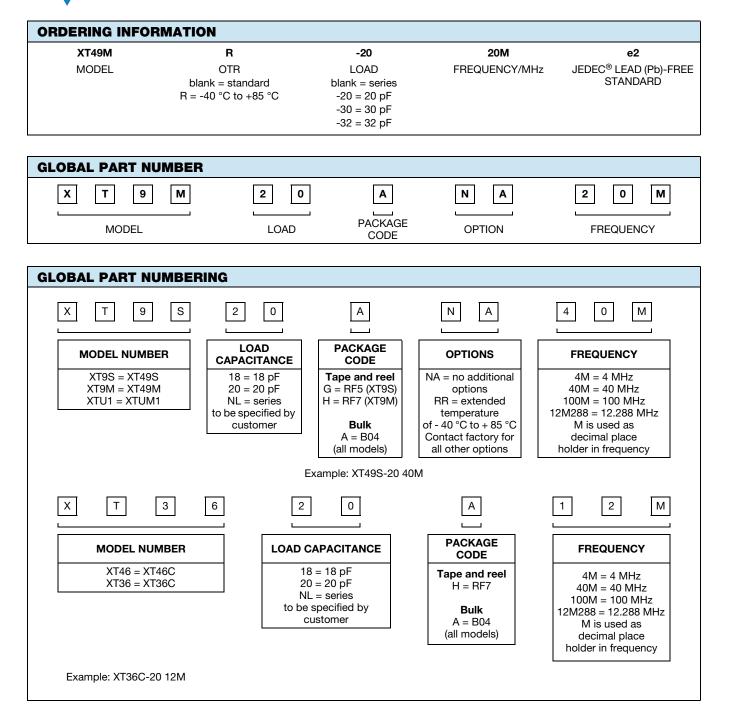
Revision: 13-Jan-2020

1 For technical questions, contact: <u>frequency@vishay.com</u> Document Number: 35012

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