

## XT49ML

Vishay Dale

## Low Profile SMD Type Crystal Units



#### FEATURES

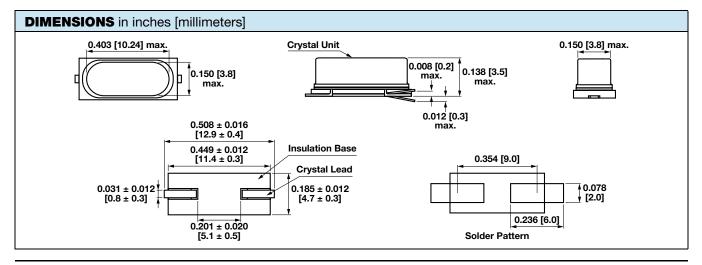
- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- Surface mount
- Compliant to RoHS directive 2002/95/EC



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

STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.	
Frequency range	Fo		MHz	3.200	-	66.000	
Frequency tolerance	$\Delta F/F_{O}$	at 25 °C	ppm	± 10	± 30	± 50	
Temperature stability	T <sub>C</sub>	ref. to 25 °C	ppm	± 10	± 30	± 50	
Operating temperature range	T <sub>OPR</sub>		°C	- 20	-	+ 70	
Storage temperature range	T <sub>STG</sub>		°C	- 40	-	+ 85	
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>	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)	<b>ΜΑΧ. ESR (</b> Ω)	MODE	FREQUENCY RANGE (MHz)	<b>ΜΑΧ. ESR (</b> Ω)	MODE				
3.200 to 4.499	150	fundamental/AT	9.000 to 9.999	60	fundamental/AT				
4.500 to 5.999	120	fundamental/AT	10.000 to 12.999	50	fundamental/AT				
6.000 to 6.999	100	fundamental/AT	13.000 to 29.999	40	fundamental/AT				
7.000 to 7.999	90	fundamental/AT	30.000 to 66.000	80	3 <sup>rd</sup> overtone				
8.000 to 8.999	80	fundamental/AT							

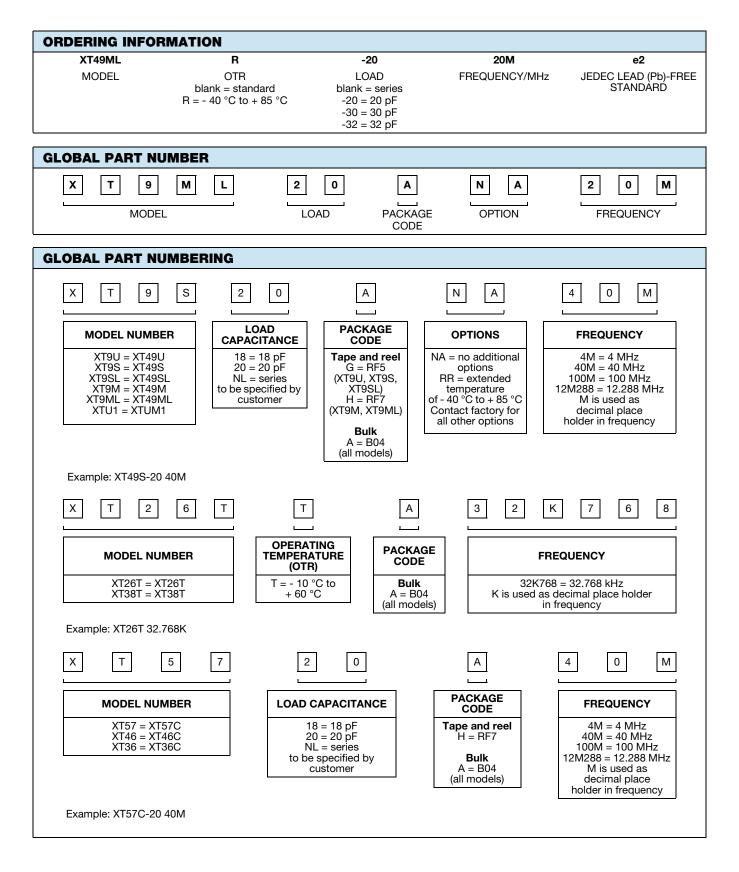


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