

XT49ML

Vishay Dale

Low Profile SMD Type Crystal Units



FEATURES

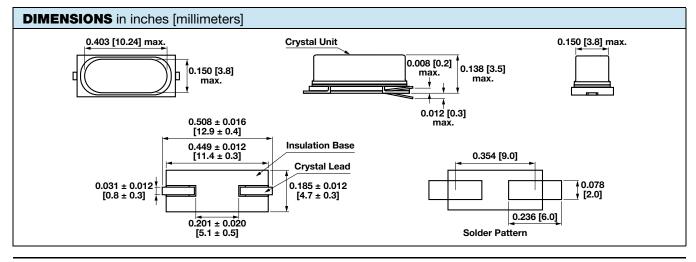
- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- Surface mount
- Compliant to RoHS directive 2002/95/EC



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 _C	ref. to 25 °C	ppm	± 10	± 30	± 50		
Operating temperature range	T _{OPR}		°C	- 20	-	+ 70		
Storage temperature range	T _{STG}		°C	- 40	-	+ 85		
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				
3.200 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 rd overtone				
8.000 to 8.999	80	fundamental/AT							

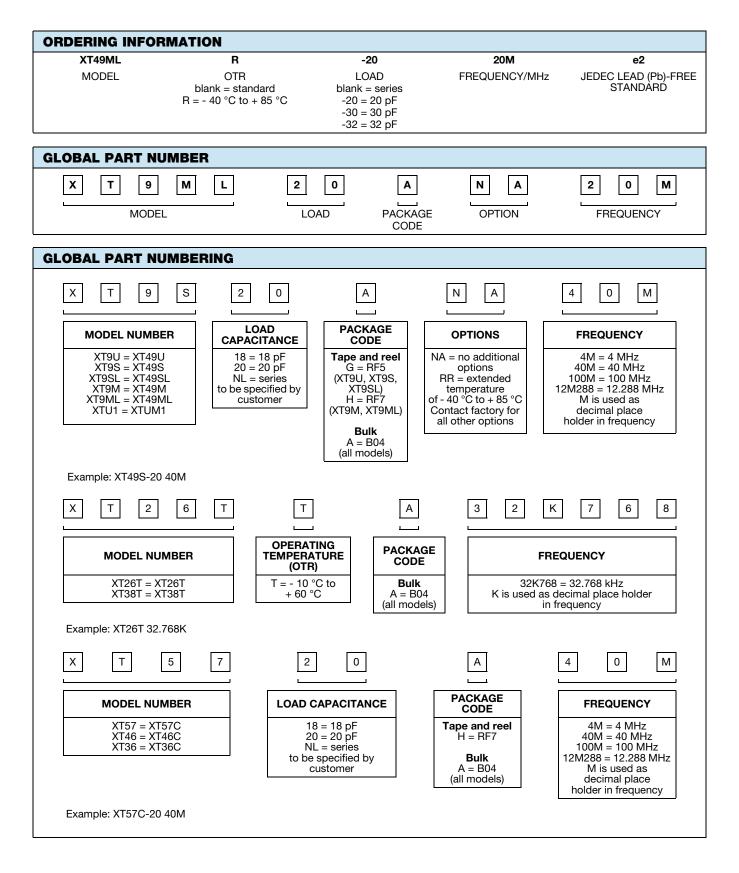


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