



# **Low Profile Holder Type Crystal Units**



#### **FEATURES**

- Low cost
- · Industry standard
- Wide frequency range
- · Excellent aging
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

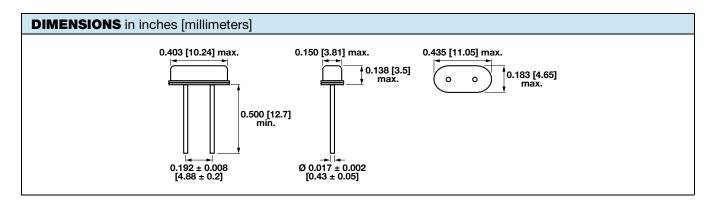


ROHS

This part is a miniature AT cut strip crystal unit with a low profile package. It is with resistance weld.

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.		
Frequency range	Fo		MHz	3.579545	-	66.000		
Frequency tolerance	ΔF/F <sub>O</sub>	at 25 °C	ppm	-30	-	+30		
Temperature stability	T <sub>C</sub>	ref. to 25 °C	ppm	-50	-	+50		
Operating temperature range	T <sub>OPR</sub>		°C	-10	-	+70		
Storage temperature range	T <sub>STG</sub>		°C	-55	-	+125		
Shunt capacitance	C <sub>0</sub>		pF	-	-	7		
Load capacitance	C <sub>L</sub>	customer specified	pF	10	-	series		
Insulation resistance	I <sub>R</sub>	100 V <sub>DC</sub>	ΜΩ	500	-	-		
Drive level	D <sub>L</sub>		μW	-	100	500		
Aging (first year)	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	FREQUENCY RANGE (MHz)	MAX. 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 66.000	80	3 <sup>rd</sup> overtone				
6.000 to 9.999	100	fundamental/AT							

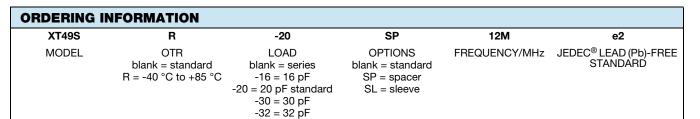


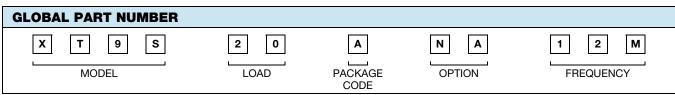


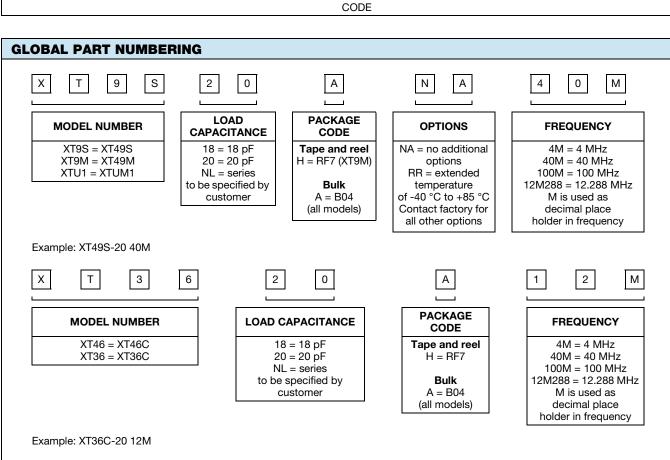


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