

RoHS

COMPLIANT

Vishay Dale

## Low Profile Holder Type Crystal Units



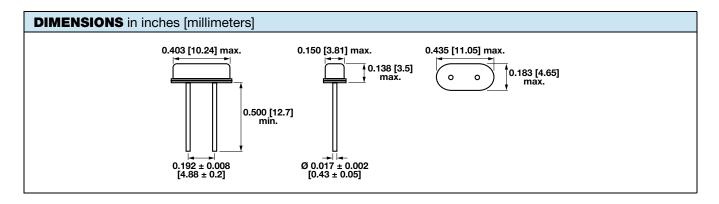
## FEATURES

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

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	$\Delta F/F_{O}$	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	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 (first year)	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				
3.579 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							

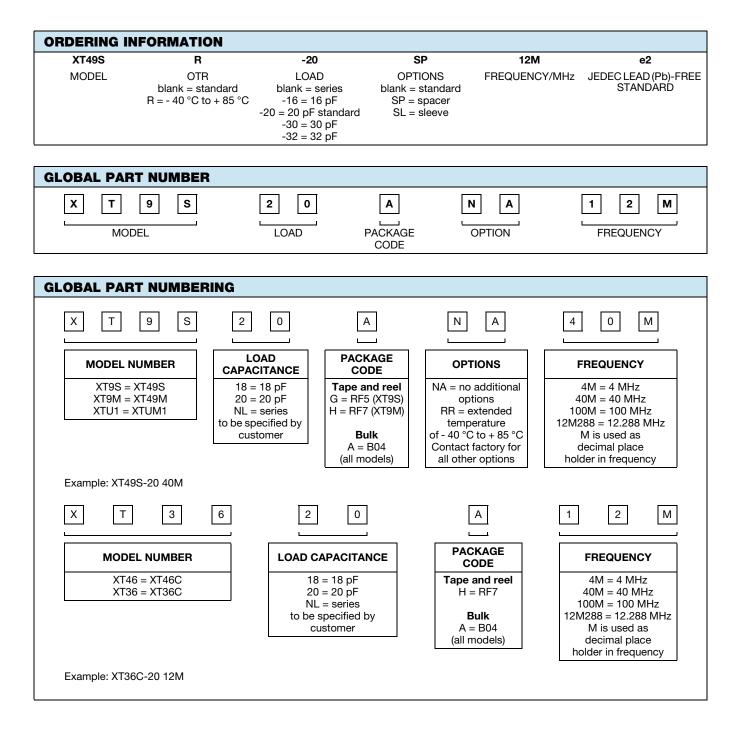


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## **XT49S**

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