XT36C

Vishay Dale

SHAY, www.vishay.com

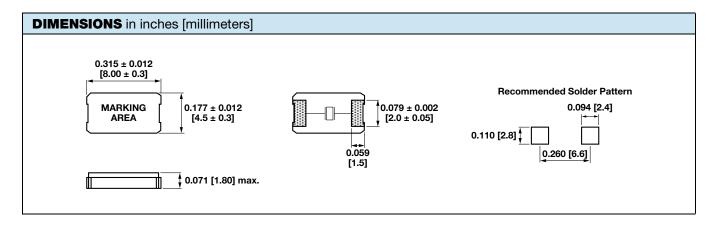
Surface Mount Crystal

FEATURES

- Miniature size: 8.0 x 4.5 x 1.8 (mm)
- Wide frequency range
- Glass sealing
- Emboss taping
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.		
Frequency range	Fo		MHz	10.000	-	70.000		
Frequency tolerance	$\Delta F/F_{O}$	at 25 °C	ppm	-	± 50	-		
Temperature stability	T _C	ref. to 25 °C	ppm	-	± 50	-		
Operating temperature range	T _{OPR}		°C	- 10	-	+ 60		
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	-	10	500		
Aging	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				
10.000 to 10.999	110	fundamental	20.000 to 31.999	25	fundamental				
11.000 to 14.099	50	fundamental	32.000 to 47.999	110	3 rd overtone				
14.100 to 17.999	45	fundamental	48.000 to 70.000	100	3 rd overtone				
18.000 to 19.999	30	fundamental							







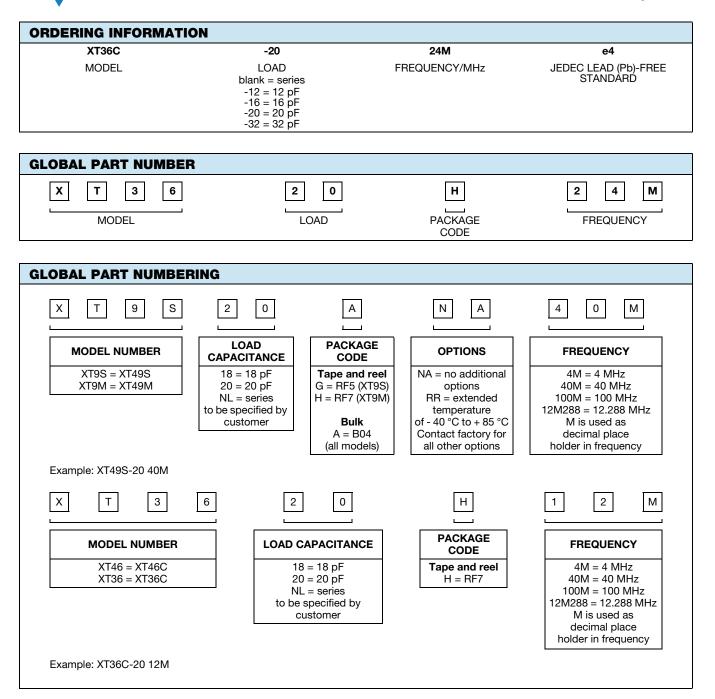
The XT36C part is a miniature SMD crystal with 8.0 x 4.5 (mm) ceramic package and a height of 1.8 mm maximum. It is widely applied in notebook computer, PCMCIA, and communication equipment.

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1 For technical questions, contact: <u>frequency@vishay.com</u> Document Number: 35010

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