

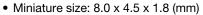


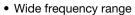
## **Surface Mount Crystal**



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

## **FEATURES**





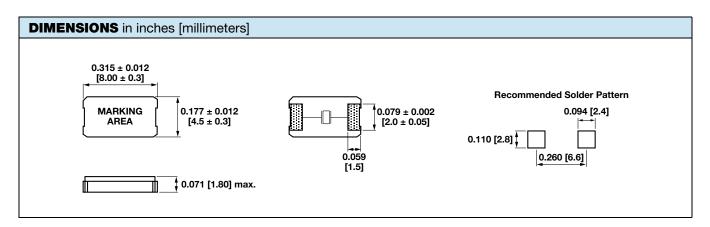
- · Glass sealing
- Emboss taping
- Compliant to RoHS directive 2002/95/EC



RoHS

STANDARD ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	Fo		MHz	10.000	-	70.000
Frequency tolerance	ΔF/F <sub>O</sub>	at 25 °C	ppm	-	± 50	-
Temperature stability	T <sub>C</sub>	ref. to 25 °C	ppm	-	± 50	-
Operating temperature range	T <sub>OPR</sub>		°C	- 10	-	+ 60
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	$D_L$		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 ( $\Omega$ )	MODE	FREQUENCY RANGE (MHz)	MAX. ESR ( $\Omega$ )	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 <sup>rd</sup> overtone	
14.100 to 17.999	45	fundamental	48.000 to 70.000	100	3 <sup>rd</sup> overtone	
18.000 to 19.999	30	fundamental				



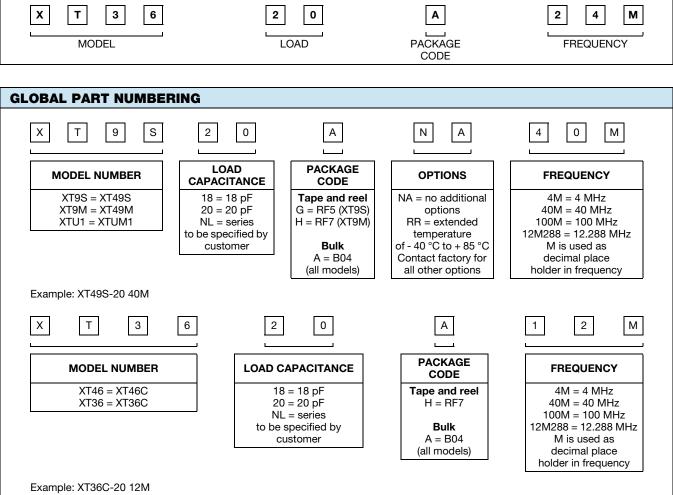
Vishay Dale

## Surface Mount Crystal



ORDERING INFORMATI	ION		
XT36C	-20	24M	e4
MODEL	LOAD blank = series -12 = 12 pF -16 = 16 pF -20 = 20 pF -32 = 32 pF	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER						
X T 3 6	2 0 LOAD	PACKAGE CODE	FREQUENCY			







Vishay

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Document Number: 91000 www.vishay.com Revision: 11-Mar-11