Vishay Dale



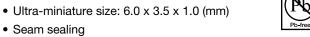
Surface Mount Crystal



This part is an ultra miniature package with size of 6.0 mm x 3.5 mm x 1.0 mm. With its ceramic base and metal cover it provides the durability and reliability necessary for strenuous process like infrared and vapor phase reflow.

FEATURES

• Ultra-miniature size: 6.0 x 3.5 x 1.0 (mm)

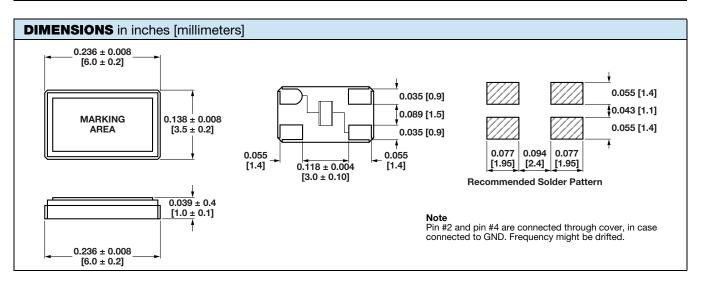




- · Ceramic package
- · Emboss taping
- · Reflow soldering
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	F _O		MHz	10.000	-	30.000
Frequency tolerance	ΔF/F _O	at 25 °C	ppm	-	± 30	-
Temperature stability	T _C	ref. to 25 °C	ppm	-	± 30	-
Operating temperature range	T _{OPR}		°C	- 10	-	+ 60
Storage temperature range	T _{STG}		°C	- 40	-	+ 85
Shunt capacitance	C ₀		pF	-	-	7
Load capacitance	C _L	customer specified	pF	10	-	series
Insulation resistance	I _R	100 V _{DC}	MΩ	500	-	-
Drive level	D _L		μW	-	10	100
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 11.999	60	fundamental	19.000 to 19.999	40	fundamental	
12.000 to 12.099	50	fundamental	20.000 to 29.999	35	fundamental	
13.000 to 18.999	45	fundamental	30.000	30	fundamental	



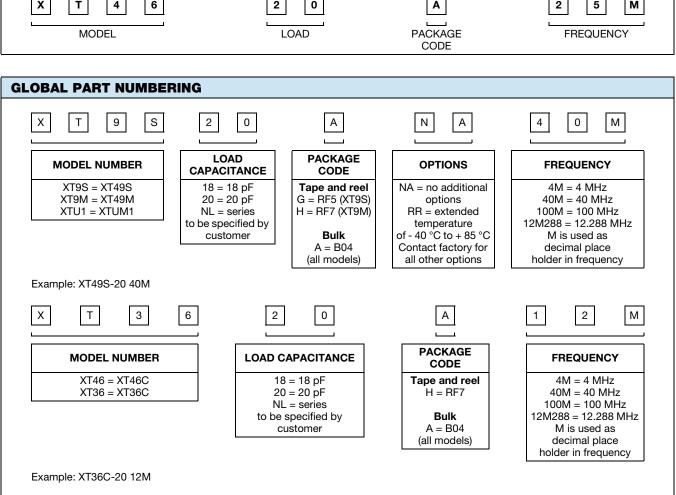
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ORDERING INFORMAT	TION		
XT46C	-20	25M	e4
MODEL	LOAD blank = series -20 = 20 pF standard -32 = 32 pF	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER			
X T 4 6 MODEL	2 0 LOAD	A PACKAGE CODE	2 5 M FREQUENCY



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