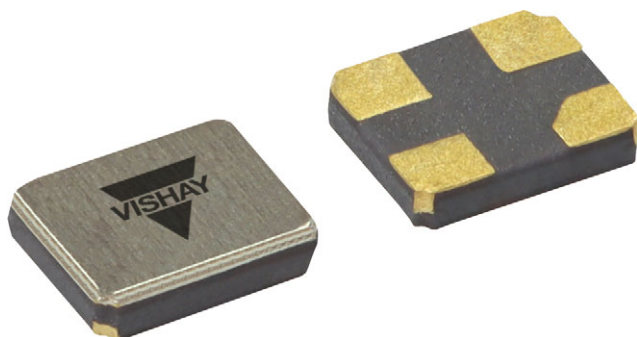


Surface-Mount Crystal



FEATURES

- Size: 1.2 x 1.0 x 0.3 (mm)
- Ultra miniature SMD package
- Frequencies from 26 MHz to 50 MHz
- Tape and reel packaging
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

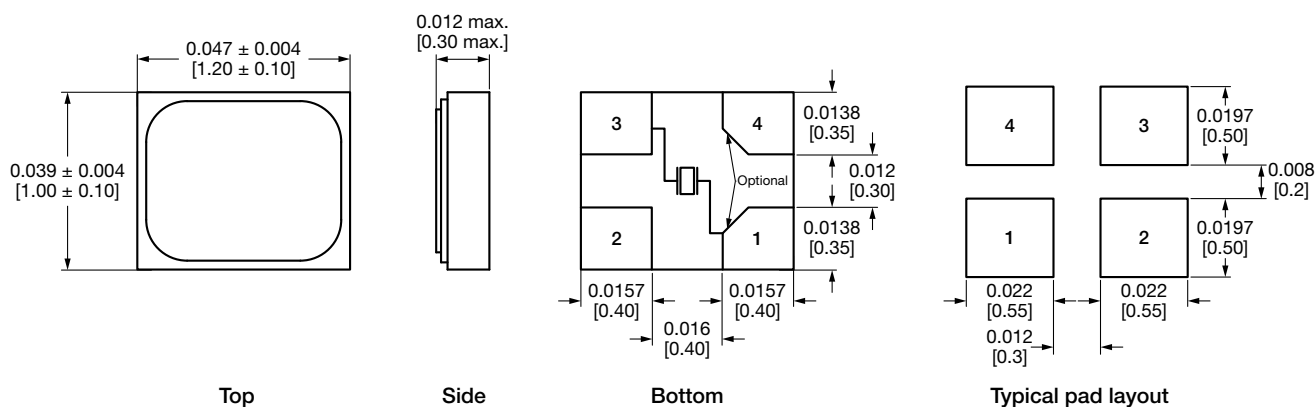
The XT10 series is an ultra miniature package crystal with dimensions 1.2 mm x 1.0 mm x 0.3 mm. It is primarily used in miniature applications such as mobile communications, gaming, bluetooth, wearable health products, portable test equipment, and size limited products.

STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	F_0		MHz	26	-	50
Frequency tolerance	$\Delta F/F_0$	At 25 °C	ppm	-	$\pm 10, \pm 20$	-
Temperature stability	T_C	Ref. to 25 °C	ppm	-	$\pm 10, \pm 20, \pm 25, \pm 50$	-
Operating temperature range	T_{OPR}	Standard	°C	0	-	+70
		Optional	°C	-30	-	+85
Storage temperature range	T_{STG}		°C	-40	-	+85
Shunt capacitance	C_0		pF	-	-	2
Load capacitance	C_L	Customer specified	pF	6	-	Series
Insulation resistance	I_R	100 V _{DC}	MΩ	500	-	-
Drive level	D_L		μW	-	10	100
Aging	F_a	At 25 °C, per year	ppm	-3	-	+3

EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)

FREQUENCY RANGE (MHz)	MAX. ESR (Ω)
26.000 to 31.999	150
32.000 to 39.999	100
40.000 to 50.000	60

DIMENSIONS in inches [millimeters]

PART NUMBER CONFIGURATIONS (to be used on all New Designs)

X		1 0		2 0		H	G		R		G		X	8 M 1 9 2					E
Crystal		Package / Size		Load Cap.		Pack Code	Freq. Tolerance		Operating Temp.		Temp. Stability		Options	Frequency					Lead (PB)-free
		10		20 = std. SE = series		A = bulk H = tape and reel	G = ± 30 ppm E = ± 25 ppm H = ± 20 ppm I = ± 15 ppm J = ± 10 ppm		S = -10 °C to +70 °C R = -30 °C to +85 °C		C = ± 100 ppm D = ± 50 ppm F = ± 35 ppm G = ± 30 ppm E = ± 25 ppm H = ± 20 ppm		X = no options Contact factory for available options	Use "M" as decimal place holder Frequency must be five digits - complete with "0" at the end					E = lead (Pb)-free

PART MARKING

Line 1: V250 (frequency)

Line 2: YWWA (date code / factory)



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