

XT57C Vishay Dale

Quartz Crystals



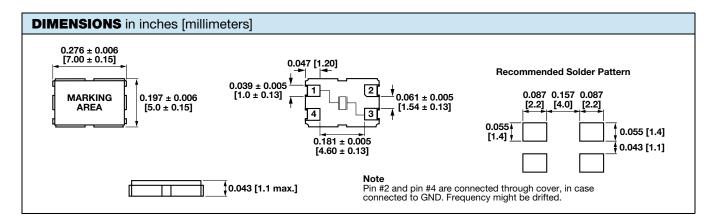
The XT57C is a miniature SMD crystal with 7.0 x 5.0 ceramic package and a height of 1.1 mm maximum. 9.8304 MHz to 100 MHz frequency makes it widely applied in notebook computer, PCMCIA, and communication equipment.

FEATURES

- Miniature size: 7.0 x 5.0 x 1.1 (mm)
- Wide frequency range
- Seam sealing
- · Emboss taping
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	Fo		MHz	9.8304	-	100.000
Frequency tolerance	$\Delta F/F_{O}$	at 25 °C	ppm	± 10	± 30	± 50
Temperature stability	T _C	ref. to 25 °C	ppm	± 10	± 30	± 50
Operating temperature range	T _{OPR}		°C	- 10	-	+ 60
Storage temperature range	T _{STG}		°C	- 40	-	+ 85
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	-	100	300
Aging (first year)	Fa	at 25 °C, per year	ppm	- 5	-	+ 5

EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)					
FREQUENCY RANGE (MHz)	ΜΑΧ. ESR (Ω)	MODE			
9.8304 to 15.999	60	fundamental			
16.000 to 39.999	40	fundamental			
40.000 to 83.999	60	3 rd overtone			
84.000 to 100.000	80	3 rd overtone			





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ORDERING INFORMATION XT57C -20 25M e4 MODEL LOAD JEDEC LEAD (Pb)-FREE FREQUENCY/MHz STANDÀRD blank = series -20 = 20 pF -32 = 32 pF $-16 = 16 \, \text{pF}$ **GLOBAL PART NUMBER** Х Т 5 7 2 0 Α 2 5 Μ MODEL LOAD PACKAGE FREQUENCY CODE **GLOBAL PART NUMBERING** Х Т 9 s 2 0 А Ν А 4 0 Μ LOAD CAPACITANCE PACKAGE MODEL NUMBER OPTIONS FREQUENCY CODE 18 = 18 pF 20 = 20 pF XT9U = XT49UTape and reel 4M = 4 MHzNA = no additional options XT9S = XT49S40M = 40 MHzG = RF5 XT9SL = XT49SL NL = series (XT9U, XT9S, RR = extended 100M = 100 MHz XT9SL) XT9M = XT49Mto be specified by temperature of - 40 °C to + 85 °C Contact factory for 12M288 = 12.288 MHz XT9ML = XT49ML customer H = RF7M is used as XTU1 = XTUM1 (XT9M, XT9ML) decimal place all other options holder in frequency Bulk A = B04(all models) Example: XT49S-20 40M Х Т 2 6 Т А 3 2 Κ 7 6 8 Т OPERATING PACKAGE MODEL NUMBER **TEMPERATURE** FREQUENCY CODE (OTR) XT26T = XT26T XT38T = XT38T T = - 10 °C to Bulk 32K768 = 32.768 kHz + 60 °C A = B04 K is used as decimal place holder (all models) in frequency Example: XT26T 32.768K 5 7 0 0 М Х Т 2 А 4 PACKAGE MODEL NUMBER LOAD CAPACITANCE FREQUENCY CODE XT57 = XT57C 18 = 18 pF Tape and reel 4M = 4 MHzXT46 = XT46C $20 = 20 \, \text{pF}$. H = RF7 40M = 40 MHz XT36 = XT36C NL = series 100M = 100 MHz to be specified by Bulk 12M288 = 12.288 MHz A = B04 customer M is used as (all models) decimal place holder in frequency Example: XT57C-20 40M



Vishay

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