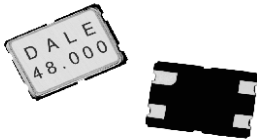


Quartz Crystals



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

FEATURES

- Miniature size
- 1.1 mm height
- Wide frequency range
- Seam sealing
- Emboss tapping
- 100 % Lead (Pb)-free and RoHS compliant


RoHS
COMPLIANT

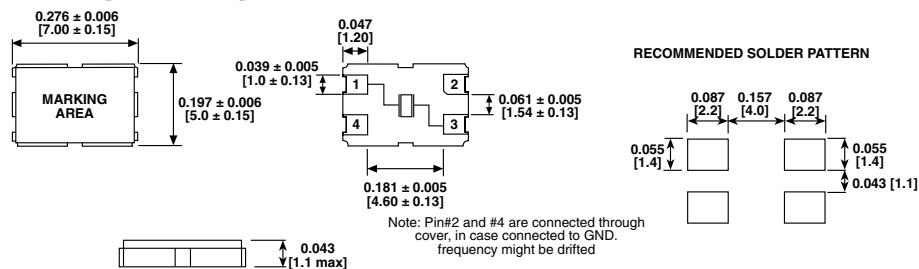
STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	UNIT	MIN	TYPICAL	MAX
Frequency Range	F_O		MHz	9.8304		100.000
Frequency Tolerance	$\Delta F/F_O$	at 25 °C	ppm	± 10	± 30	± 50
Temperature Stability	TC	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_O		pF			7
Load Capacitance	CL	Customer Specified	pF	10		Series
Insulator Resistance	IR	100 V _{DC}	MΩ	500		
Drive Level	DL		μW		100	300
Aging	Fa	at 25 °C, per year	ppm	-5.0		+ 5.0

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

FREQUENCY RANGE (MHz)	MAX 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

DIMENSIONS in inches [millimeters]



ORDERING INFORMATION

XT57C MODEL	-20 LOAD Blank = Series 20 = 20 pF 32 = 32 pF 16 = 16 pF	25 M FREQUENCY/MHz	e4 JEDEC LEAD (Pb)-FREE STANDARD
----------------	---	-----------------------	--

GLOBAL PART NUMBER

MODEL	LOAD	PACKAGE CODE	FREQUENCY
X T 5 7	2 0	A	2 5 M



GLOBAL PART NUMBERING



Example: XT49S-20 40M



Example: XT26T 32.768K



Example: XT57C-20 40M



Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.