

Surface Mount Crystal



This part is an ultra miniature package with size of 6.0 x 3.5 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
- Wide frequency range
- Seam sealing
- Ceramic package
- Emboss tapping
- Reflow soldering
- 100 % Lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

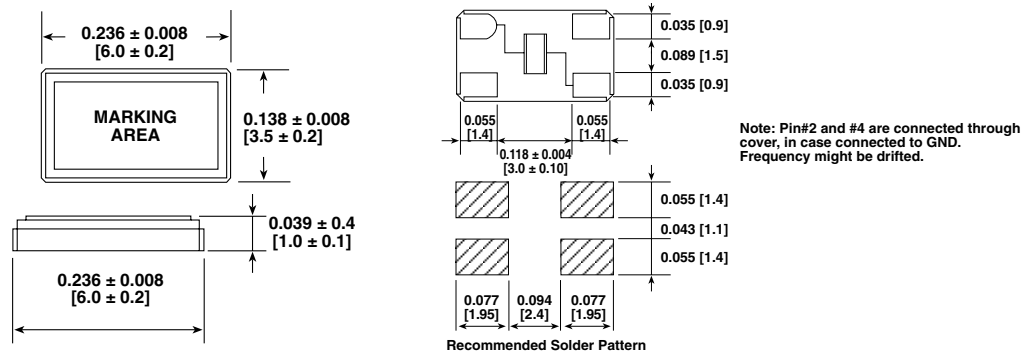
STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	UNIT	MIN	TYPICAL	MAX
Frequency Range	F_0		MHz	10.000		80.000
Frequency Tolerance	$\Delta F/F_0$	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
Storing Temperature Range	T_{STG}		°C	- 40		+ 85
Shunt Capacitance	C_0		pF			7
Load Capacitance	CL	Customer Specified	pF	10		Series
Insulator Resistance	IR	100 V _{DC}	M Ω	500		
Drive Level	DL		μ W		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
10.000 to 15.999	60	Fundamental
16.000 to 39.999	40	Fundamental
40.000 to 80.000	70	3 rd Overtone

DIMENSIONS in inches [millimeters]



ORDERING INFORMATION

XT46C MODEL	- 20 LOAD Blank = Series - 20 = 20 pF Standard - 32 = 32 pF	25 M FREQUENCY/MHz	e4 JEDEC LEAD (Pb)-FREE STANDARD
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GLOBAL PART NUMBER

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



GLOBAL PART NUMBERING

X	T	9	S	2	0	A	N	A	4	0	M
MODEL NUMBER				LOAD CAPACITANCE		PACKAGE CODE		OPTIONS		FREQUENCY	
XT9U = XT49U XT9S = XT49S XT9SL = XT49SL XT9M = XT49M XT9ML = XT49ML XTU1 = XTUM1				18 = 18 pF 20 = 20 pF NL = Series to be specified by customer		TAPE AND REEL G = RF5 (XT9U, XT9S, XT9SL) H = RF7 (XT9M, XT9ML) BULK A = B04 (all models)		NA = No Additional Options RR = Extended Temperature of - 40 °C to + 85 °C Contact factory for all other options		4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz M is used as decimal place holder in frequency	

Example: XT49S-20 40M

X	T	2	6	T	T	A	3	2	K	7	6	8
MODEL NUMBER					OPERATING TEMPERATURE (OTR)		PACKAGE CODE		FREQUENCY			
XT26T = XT26T XT38T = XT38T					T = - 10 °C to + 60 °C		BULK A = B04 (all models)		32K768 = 32.768 kHz K is used as decimal place holder in frequency			

Example: XT26T 32.768K

X	T	5	7	2	0	A	4	0	M
MODEL NUMBER				LOAD CAPACITANCE		PACKAGE CODE		FREQUENCY	
XT57 = XT57C XT46 = XT46C XT36 = XT36C				18 = 18 pF 20 = 20 pF NL = Series to be specified by customer		TAPE AND REEL H = RF7 BULK A = B04 (all models)		4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz M is used as decimal place holder in frequency	

Example: XT57C-20 40M



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