

Low Profile SMD Type Crystal Units



FEATURES

- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- Surface mount
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

This part is a miniature AT cut strip crystal unit packaged for surface mounting.

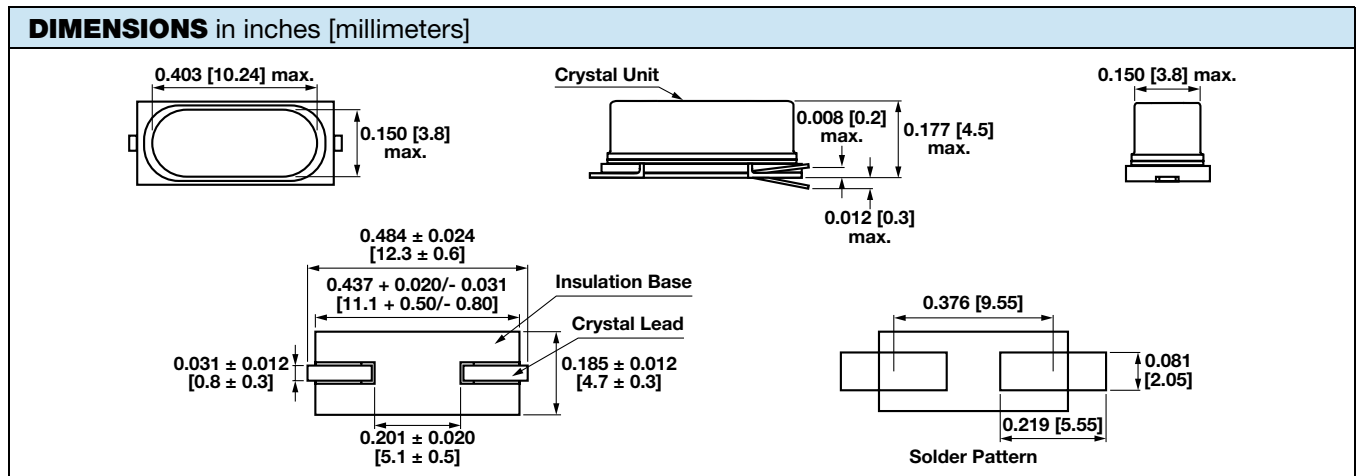
STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	F_0		MHz	3.579545	-	66.000
Frequency tolerance	$\Delta F/F_0$	at 25 °C	ppm	- 30	-	+ 30
Temperature stability	T_C	ref. to 25 °C	ppm	- 50	-	+ 50
Operating temperature range	T_{OPR}		°C	- 10	-	+ 70
Storage temperature range	T_{STG}		°C	- 55	-	+ 125
Shunt capacitance	C_0		pF	-	-	7
Load capacitance	C_L	customer specified	pF	10	-	series
Insulation resistance	I_R	100 V _{DC}	M Ω	500	-	-
Drive level	D_L		μ W	-	100	500
Aging	F_a	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
3.579 to 3.999	200	fundamental/AT	10.000 to 13.999	80	fundamental/AT
4.000 to 4.999	150	fundamental/AT	14.000 to 39.999	50	fundamental/AT
5.000 to 5.999	120	fundamental/AT	40.000 to 66.999	80	3 rd overtone
6.000 to 9.999	100	fundamental/AT			

DIMENSIONS in inches [millimeters]





ORDERING INFORMATION				
XT49M MODEL	R OTR blank = standard R = - 40 °C to + 85 °C	-20 LOAD blank = series -20 = 20 pF -30 = 30 pF -32 = 32 pF	20M FREQUENCY/MHz	e2 JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER				
X	T	9	M	
MODEL				
	2	0		
	LOAD			
		A		
		PACKAGE CODE		
		N	A	
		OPTION		
		2	0	M
			FREQUENCY	

GLOBAL PART NUMBERING				
X	T	9	S	
MODEL NUMBER				
XT9S = XT49S XT9M = XT49M XTU1 = XTUM1				
	2	0		
	LOAD CAPACITANCE			
	18 = 18 pF 20 = 20 pF NL = series to be specified by customer			
		A		
		PACKAGE CODE		
		Tape and reel G = RF5 (XT9S) H = RF7 (XT9M) Bulk A = B04 (all models)		
		N	A	
		OPTIONS		
		NA = no additional options RR = extended temperature of - 40 °C to + 85 °C Contact factory for all other options		
		4	0	M
			FREQUENCY	
		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	3	6	
MODEL NUMBER				
XT46 = XT46C XT36 = XT36C				
	2	0		
	LOAD CAPACITANCE			
	18 = 18 pF 20 = 20 pF NL = series to be specified by customer			
		A		
		PACKAGE CODE		
		Tape and reel H = RF7 Bulk A = B04 (all models)		
		1	2	M
			FREQUENCY	
		4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz M is used as decimal place holder in frequency		
Example: XT36C-20 12M				



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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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