

Low Profile SMD Type Crystal Units



FEATURES

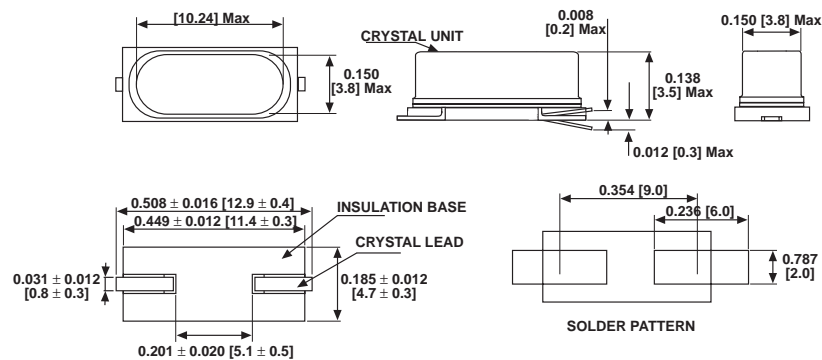
- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- Surface mount

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

STANDARD ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN	TYPICAL	MAX
Frequency Range	F_o		MHz	3.200		66.000
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	- 20*		+ 70*
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	100V _{DC}	MΩ	500		
Drive Level	DL		μW		100	500
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	FREQUENCY RANGE(MHZ)	MAX ESR(Ω)	MODE
3.200 to 4.499	150	Fundamental/AT	9.000 to 9.999	60	Fundamental/AT
4.500 to 5.999	120	Fundamental/AT	10.000 to 12.999	50	Fundamental/AT
6.000 to 6.999	100	Fundamental/AT	13.000 to 30.000	40	Fundamental/AT
7.000 to 7.999	90	Fundamental/AT	30.000 to 66.000	80	3 rd Overtone
8.000 to 8.999	80	Fundamental/AT			

DIMENSIONS in inches [millimeters]



ORDERING INFORMATION

XT49ML MODEL	R OTR	- 20 LOAD	20 FREQUENCY/MHz
	Blank = Standard R = - 40°C to +85°C	Blank = Series - 20 = 20pF - 30 = 30pF - 32 = 32pF	