XT49SL

Vishay Dale



Low Profile Holder Type Crystal Units



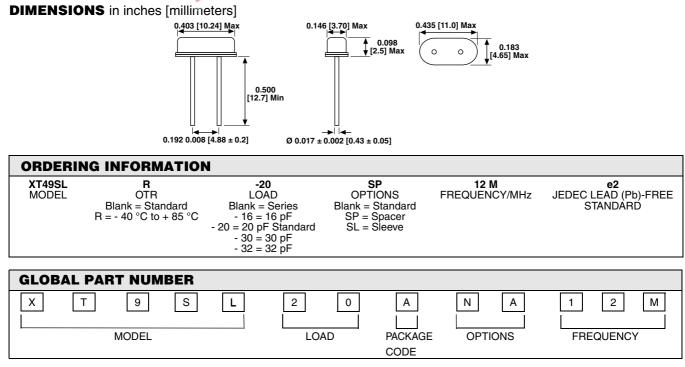
FEATURES

- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- 100 % Lead (Pb)-free and RoHS compliant

This part is a miniature AT cut strip crystal unit with a low profile package. It is with resistance weld.

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	UNIT	MIN	TYPICAL	MAX		
Frequency Range	Fo		MHz	3.200		66.000		
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	- 20		+ 70		
Storing Temperature Range	T _{STG}		°C	- 40		+ 85		
Shunt Capacitance	Co		pF	4.4		7		
Load Capacitance	CL	Customer Specified	pF 🕺	10		Series		
Insulator Resistance	IR	100 V _{DC}	MΩ	500				
Drive Level	DL		μW		100	500		
Aging (first year)	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	3rd Overtone				
8.000 to 8.999	80	Fundamental/AT							







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GLOBAL PART NUMBERING Х Т 9 S 0 Ν А 4 0 Μ 2 А LOAD PACKAGE MODEL NUMBER OPTIONS FREQUENCY CAPACITANCE CODE XT9U = XT49U $18 = 18 \, \text{pF}$ TAPE AND REEL NA = No4M = 4 MHzXT9S = XT49S $20 = 20 \, \text{pF}$ G = RF5 Additional 40M = 40 MHz XT9SL = XT49SL NL = Series (XT9U, XT9S, XT9SL) Options 100M = 100 MHz RR = Extended XT9M = XT49M to be specified by 12M288 = 12.288 MHz H = RF7Temperature customer XT9ML = XT49ML M is used as (XT9M, XT9ML) of - 40 °C to + 85 °C XTU1 = XTUM1 decimal place holder in frequency Contact factory for BULK all other options A = B04A State of the (all models) Example: XT49S-20 40M Х 2 6 Т Т 2 8 Т 3 Κ 7 6 OPERATING PACKAGE MODEL NUMBER TEMPERATURE FREQUENCY CODE (OTR) XT26T = XT26TT = - 10 °C to + 60 °C BULK 32K768 = 32.768 kHz XT38T = XT38TA = B04 K is used as decimal place holder (all models) in frequency Example: XT26T 32.768K Х Т 5 2 4 Μ 0 0 LOAD PACKAGE MODEL NUMBER FREQUENCY CODE CAPACITANCE XT57 = XT57C 18 = 18 pF TAPE AND REEL 4M = 4 MHzXT46 = XT46C20 = 20 pFH = RF740M = 40 MHzXT36 = XT36C NL = Series 100M = 100 MHz 12M288 = 12.288 MHz to be specified by BULK customer M is used as A = B04 decimal place (all models) holder in frequency Example: XT57C-20 40M



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