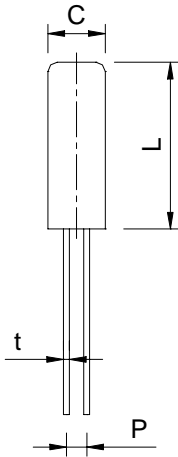


OUTLINE DIMENSIONS



TYPE	L	P	C	t
A	10.3	1.1	3.1	0.32
B	9.3	1.1	3.1	0.32
C	8.3	1.1	3.1	0.32
D	8.3	0.8	3.1	0.32

ELECTRICAL SPECIFICATIONS

Frequency range	3.579MHz ~ 66.666MHz	
Frequency tolerance	±30ppm	±30ppm
Frequency stability	±30ppm	±50ppm
Operating temperature range	-0 °C ~ 70 °C	-20 °C ~ 70 °C
Operable temperature range	-40 °C ~ 85 °C	
Storage temperature range	-55 °C ~ 125 °C	
Shunt capacitance (C0)	7pF max.	
Load capacitance (CL)	10pF to 33pF	
Drive level	100µW max. (Typical)	
Aging (at 25 °C)	±5ppm / year max.	
Insulation resistance	500MΩ min.	
Frequency range	ESR (Ω) max.	Oscillation mode
3.5795MHz ~ 3.9999MHz	250	Fundamental
4.0000MHz ~ 4.9999MHz	150	Fundamental
5.0000MHz ~ 5.9999MHz	120	Fundamental
6.0000MHz ~ 6.9999MHz	100	Fundamental
7.0000MHz ~ 8.9999MHz	80	Fundamental
9.0000MHz ~ 12.9999MHz	60	Fundamental
13.0000MHz ~ 19.9999MHz	50	Fundamental
20.0000MHz ~ 29.9999MHz	40	Fundamental
30.0000MHz ~ 49.9999MHz	90	3'rd overtone
50.0000MHz ~ 66.6660MHz	100	3'rd overtone

ORDERING GUIDE

TH-3x9 Frequency	:	
Load capacitance	:	pF
Crystal impedance	:	Ω
Stability	:	± ppm (at 25 °C)
Tolerance	:	± ppm (°C ~ °C)
Drive level	:	µW
Shunt capacitance	:	pF
Package type	:	A ~ D
Packing type	:	Bulk / Lead forming for SMT

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

APPLICATIONS CIRCUIT

