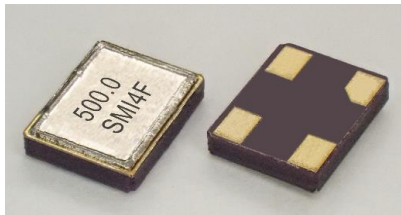


Quartz Crystal Units

32SMX(D)

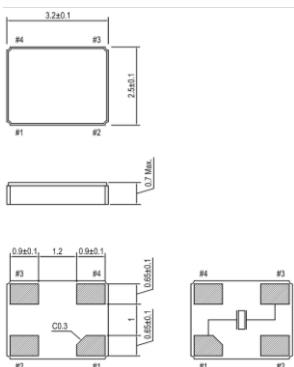
STANDARD SMD CRYSTALS

32SMX(D)

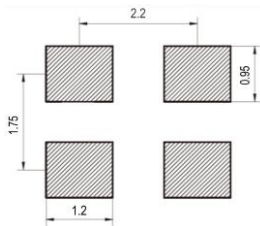


0.032 gm (wt.)

32SMX(D)



SOLDERING PATTERN

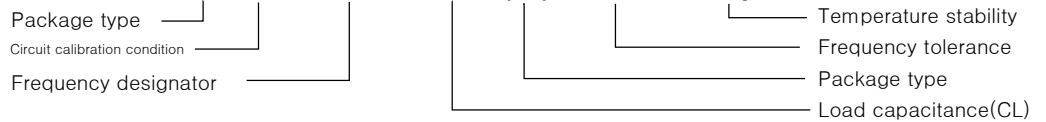


STANDARD SPECIFICATIONS

Item	Specifications
Package type	32SMX(D)
Frequency range	491.520 MHz to 1000 MHz (1 GHz)
Frequency tolerance at +25°C ±3°C	O : ±10 ppm Q : ±15 ppm R : ±20 ppm
Temperature stability(referred to +25°C)	OOmll : ±10 ppm over -40°C to +85°C RRmll : ±20 ppm over -40°C to +85°C RRptt : ±20 ppm over -55°C to +125°C TTptt : ±30 ppm over -55°C to +125°C XXptt : ±50 ppm over -55°C to +125°C
Load capacitance (CL)	10 pF, Typical
Equivalent series resistance (ESR)	30Ω max. (f = 640 MHz)
Shunt capacitance (C0)	6.0 pF, Typical
Motional capacitance (C1)	1.7 fF, Typical (f=640 MHz)
Drive level (P)	500 μW max.
Aging	±5 ppm max. at +25°C±3°C per year

PART NUMBERING GUIDE

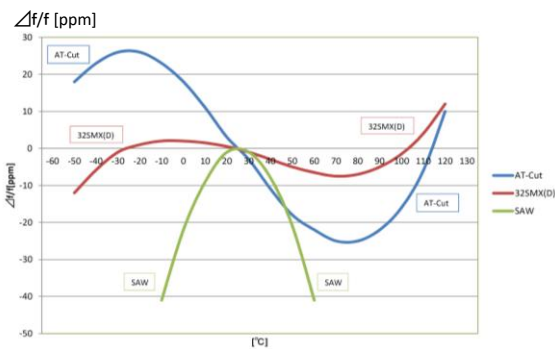
32 M 500.0 - 10 (D) - O - RRptt



EXAMPLE

SMI Part No.	Package	Circuit Calibration Condition	Frequency	Frequency Tolerance	Temperature Stability
32M500.0-10(D)-O-RRptt	32(D)=32SMX(D)	M=Parallel resonance CL=10pF	500.0=500.000 MHz	O=±10ppm(+25°C)	RRptt ±20ppm(-55°C to +125°C)

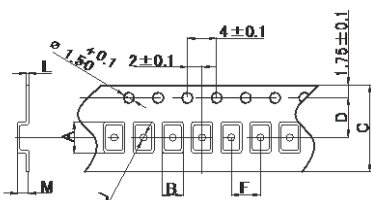
TYPICAL TEMPERATURE CHARACTERISTICS



PACKAGE DATA

Item	Package	32SMX(D)
Lid		Metal
Base		Ceramic
Sealing		Electron-beam
Terminal		Tungsten(metalized)
Terminal plating		Gold/Nickel (surface)/(under)
RoHS		Compliant(Pb-free)

TAPE SPECIFICATIONS



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
3.5	2.8	8.0	3.5	4.0	1.15	0.25	1.0	180	3000pcs