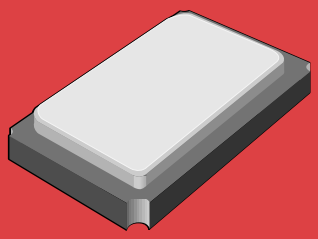
RXD644



FEATURES

- 1.1 mm height
- Wide frequency range availability
- Excellent aging characteristics
- High frequency fundamental capability
- Ultra miniature design
- Tape & Reel (1,000 pcs)

1.1mm SMD QUARTZ CRYSTAL

The RXD644 delivers unmatched frequency stability with a frequency range from 12MHz to 100MHz with an operating temperature of -10˚ to +70˚C. Aging characteristics are exceptional utilizing advanced cold-sealing processes with a ceramic housing / metal cover. These specifications along with a dimensional height of only 1.1mm make this SMD crystal the perfect choice for compact wireless communication applications.

PART NUMBERING GUIDE *"EXAMPLE"*

PART NUMBER		LOAD CAPACITANCE*		TAPE & REEL		FREQUENCY
RXD644	–	32		R	–	14.31818 MHz

** Load capacitance (xx=xx pF, S= series resonance)*

Note: See Product Selection Guide for additional options.

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE		12.6		100.0	MHz
CALIBRATION TOLERANCE	@ +25˚C	-50		+50	PPM
FREQUENCY STABILITY ref. 25˚C	-20~ +70˚C	-50	See Table 1	+50	PPM
SHUNT CAPACITANCE	C_O			7.0	pF
LOAD CAPACITANCE	C_L (Customer Specified)	10.0	18.0 standard	Series	pF
DRIVE LEVEL	D_L			0.1	mW
OPERATING TEMPERATURE	T_{OPR}	-10		+70	˚C
STORAGE TEMPERATURE	T_{STG}	-40		+85	˚C
AGING CHARACTERISTICS (FIRST YEAR)	@ +25˚C	-2.0		+2.0	PPM

EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE OF OSC.	MAX. ESR (Ω)	FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR (Ω)
12.000 ~ 15.999	Fundamental	80	20.000 ~ 49.999	3rd OT	40
16.000 ~ 19.999	Fundamental	60	27.000 ~ 100.000	3rd OT	100

PACKAGE DIMENSIONS (mm)

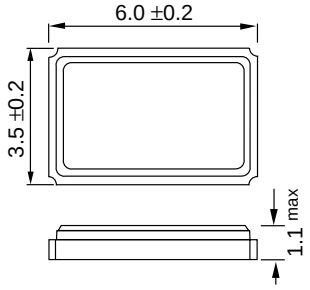


Figure 1) Top and Side views

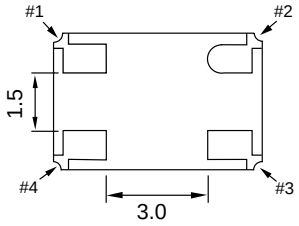


Figure 2) Land Pattern - Bottom view

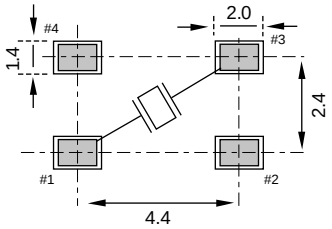


Figure 3) Recommended Solder Pad Layout - Top view

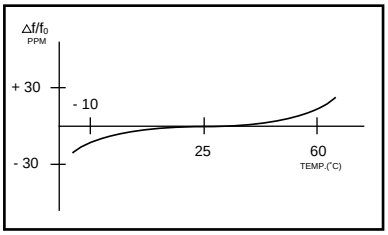


Figure 4) Frequency vs Temperature Curve

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