

# MINIATURE CERAMIC SMD CRYSTAL FC

The FC surface mount crystal has a package height of 2.2mm for those applications where the standard FPX is too tall.

## FEATURES

- Low Package Height
- High Reliability
- Competitive Pricing
- Compatible with Existing SMD Designs
- Tape and Reel (1,000 pcs. STD)



Actual Size

## • FC STANDARD SPECIFICATIONS

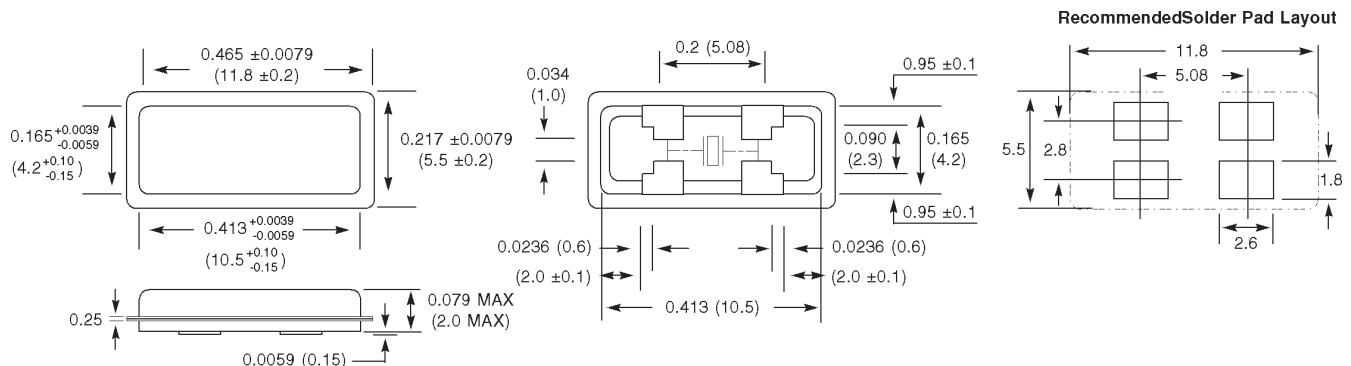
PARAMETERS	CONDITIONS	MIN	MAX	UNITS
Frequency Range		3.579545	70.000	MHz
Frequency Tolerance	Ta = 25°C	-50 *	+50 *	PPM
Frequency Stability, ref @ 25°C	See below			
Temperature Range				
Operating (TOPR)	See below			
Storage (TSTG)		-40	+90	°C
Shunt Capacitance (Co)			5.0	pF
Load Capacitance (CL)	Customer Specified			pF
Drive Level	3.579545 ~ 70.000 MHz		0.1	mW
Aging	Ta = 25°C; per year			PPM

\*Tolerances to ±20PPM available

Frequency Range (MHz)	Operating Mode	Max ESR Ω	Frequency Range (MHz)	Oper. Mode	Max ESR Ω
3.579545 ~ 4.000	Fundamental	150	10.000+ ~ 13.000	Fundamental	50
4.000+ ~ 5.000	Fundamental	120	13.000+ ~ 19.000	Fundamental	40
5.000+ ~ 6.000	Fundamental	100	19.000+ ~ 25.000	Fundamental	30
6.000+ ~ 9.000	Fundamental	80	32.000 ~ 70.000	3rd OT	60
9.000+ ~ 10.000	Fundamental	60			

Operating Temperature	±10PPM	±15PPM	±20PPM	±25PPM	±30PPM	±50PPM	±100PPM
10°C ~ +70°C	*	*	*	*	*	*	*
-20°C ~ +70°C	*	*	*	*	*	*	*
-30°C ~ +80°C		*	*	*	*	*	*
-35°C ~ +85°C			*	*	*	*	*
-40°C ~ +80°C			*	*	*	*	*
-40°C ~ +90°C					*	*	*

All specifications subject to change without notice. Rev. 7/8/98



Inch dimensions shall govern.  
All dimensions are in inches & parenthetically in millimeters.  
See page 26 for tape and reel specifications.