

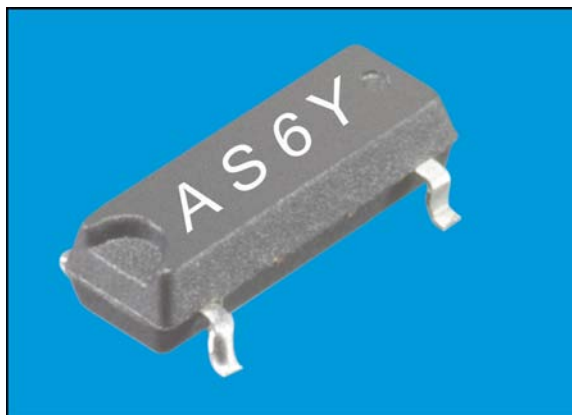
ULTRA MINIATURE SURFACE MOUNT WATCH CRYSTAL FSP

The FSP is our smallest SMD watch crystal yet. This thermoplastic package with overall dimensions of 7.3 x 2.8 x 2mm is ideal for applications with a minimum of available space.

FEATURES

- Ultra Miniature Package
- Industry Standard
- 2.0mm Height
- Tape and Reel (3,000 pcs. STD)

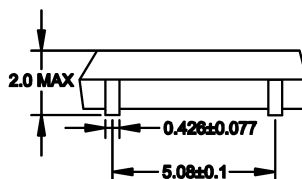
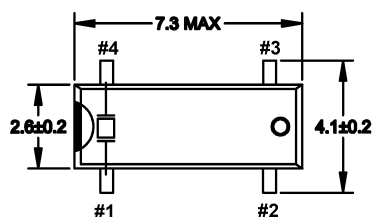
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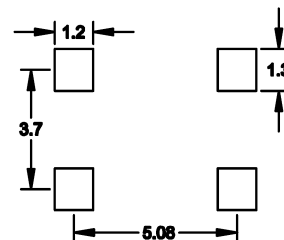
• FSP STANDARD SPECIFICATIONS

PARAMETERS	CONDITIONS	MIN	MAX	UNITS
Frequency	32.768 kHz			
Frequency Tolerance	Ta = 25°C, CL = 12.5 pF	-20	+20	PPM
Frequency Stability	Temperature Coefficient		-0.04	PPM / (Δ°C) ²
Temperature Range				
Turnover (To)		+20	+30	°C
Operating (TOPR)		-40	+85	
Storage (TSTG)		-55	+125	
Equivalent Series Resistance (ESR)			55	kΩ
Insulation Resistance	@ 100 VDC	500		MΩ
Drive Level			1.0	μW
Aging	Ta = 25°C; per year	-5.0	+5.0	PPM

All specifications subject to change without notice. Rev. 03/02/00



Recommended Solder Pad Layout



All dimensions are in millimeters.

See page 31 for tape and reel specifications.