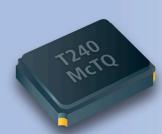
SMD Glass Sealing Crystals 2.5 x 2.0 x 0.75 mm 7S Series



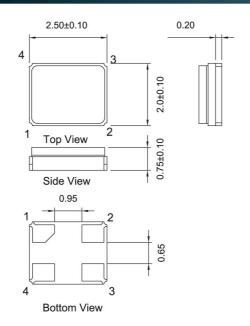
Features

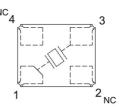
- · 4 pads SMD glass sealed Crystal.
- · Applications for NB, DSC, USB, Variety of compact portable consumer products reference clocks.
- · High reliable environmental performance.
- · Contains Pb in sealing glass exempted by RoHS directive.

Electrical Specifications				
Item / Type	7\$			
Frequency Range	12 ~ 64 MHz			
Frequency Tolerance (at 25 °C)	\pm 10 ppm, \pm 20 ppm, or specify			
Frequency Stability Over Operating Temperature Range	\pm 10 ppm, \pm 20 ppm, or specify			
Operating Temperature Range	-10 \sim + 70 $^{\circ}$ C, or specify			
Shunt Capacitance (C0)	3 pF Max.			
Drive Level	1 ~ 50 μW (10 μW typical)			
Load Capacitance	8 pF, 10 pF, or specify			
Aging (at 25 °C)	± 3 ppm / year Max.			
Storage Temperature Range	- 40 ~ + 85 °C			

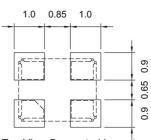
Equivalent Series Resistance(ESR)					
Fundamental					
12 ~ 13 MHz	200 Ω Max.		20 ~ 27 MHz	80 Ω Max.	
13 ~ 16 MHz	150 Ω Max.		27 ~ 64 MHz	60 Ω Max.	
16 ~ 20 MHz	100 Ω Max.				

Dimensions





Top View Crystal Connection



Top View Suggested Layout

Units: mm