

# MXS Series

## Miniature Surface Mount Crystals



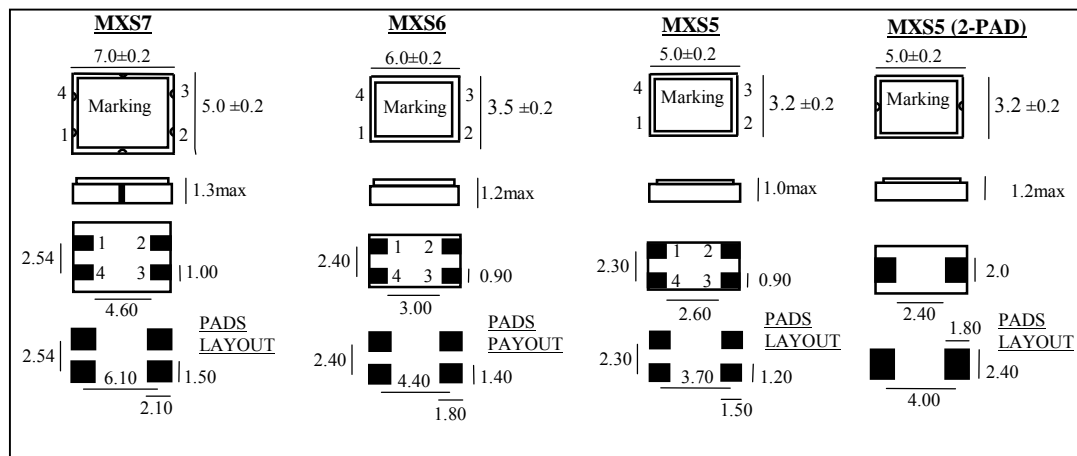
**Microcom  
Devices Ltd.**

- FEATURES**
- . Miniature Ceramic 4-pads SMD (2-pads optional)
  - . Wide Frequency & Temperature. Range
  - . Excellent Solderability

**SPECIFICATIONS** (subject to change w/o notice)

Parameters	MXS7	MXS6	MXS5
Frequency Range	8.000MHz ~ 125.000MHz	10.000MHz ~ 70.000MHz	12.000MHz ~ 50.000MHz
Operating Temp.	0°C~+50°C to -40°C~+85°C	0°C~+50°C to -40°C~+85°C	0°C~+50°C to -40°C~+85°C
Storage Temp.	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Frequency Tolerance	±10/15/20/30/50 @ 25°C	±10/15/20/30/50 @ 25°C	±10/15/20/30/50 @ 25°C
Frequency Stability	±5/10/15/20/30/50/100ppm (ref. to 25°C)	±5/10/15/20/30/50/100ppm (ref. to 25°C)	±5/10/15/20/30/50/100ppm (ref. to 25°C)
Load Capacitance	Series or 10pF~32pF	Series or 10pF~32pF	Series or 10pF~32pF
Shunt Capacitance	7pF max	7pF max	7pF max
Drive Level	0.1mW max	0.1mW max	0.1mW max
ESR (Max), Fundamental	70Ω @ 8MHz~10MHz	70Ω @ 10MHz~12MHz	70Ω @ 12MHz~16MHz
Fundamental	60Ω @ 10MHz~16MHz	60Ω @ 12MHz~20MHz	60Ω @ 16MHz~20MHz
Fundamental	50Ω @ 16MHz~32MHz	50Ω @ 20MHz~33MHz	50Ω @ 20MHz~50MHz
3 <sup>rd</sup> Overtone	80Ω @ 33MHz~60MHz	70Ω @ 33MHz~70MHz	
3 <sup>rd</sup> Overtone	60Ω @ 60MHz~80MHz		
3 <sup>rd</sup> /5 <sup>th</sup> Overtone	70Ω @ 80MHz~125MHz		
Aging (25°C)	±5ppm max/year	±5ppm max/year	±5ppm max/year
Insulation Resistance	500MΩ min @ 100VDC	500MΩ min @ 100VDC	500MΩ min @ 100VDC

**OUTLINE**  
(mm) not to scale



**PART NUMBERING**

Model	Frequency	Load Capacitance	Tolerance	Stability	Temperature	Packaging	Other Options
MXS7 MXS6 MXS5	MHz Value	pF Value or S: Series	5: 50ppm 4: 30ppm 3: 20ppm 2: 15ppm 1: 10ppm	6: 100ppm 5: 50ppm 4: 30ppm 3: 20ppm 2: 15ppm 1: 10ppm 0: 5ppm	Blank: -10C ~ +60C J: -20C ~ +60C K: -30C ~ +60C C: 0C ~ +70C M: -20C ~ +70C N: -30C ~ +75C I: -40C ~ +85C E: -40C ~ +105C	Blank: Bulk R: Tape & Reel	2: 2-pads SMD
<b>Example: MXS7-16.384-18-35I</b>			<b>Please contact Microcom Devices for custom specifications</b>				