

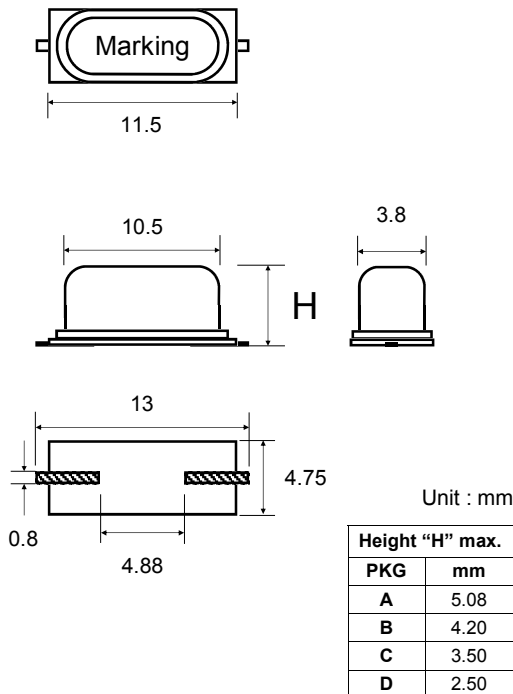
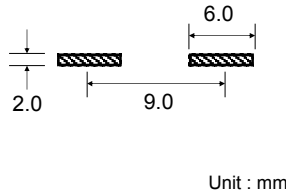
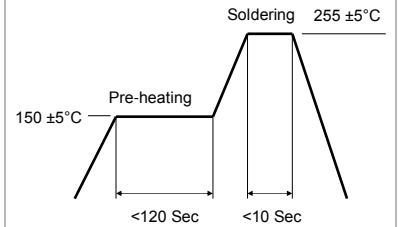
## STANDARD HC49/SMD CRYSTAL (11.5 x 4.75 x 3.5mm)

**FEATURES:**

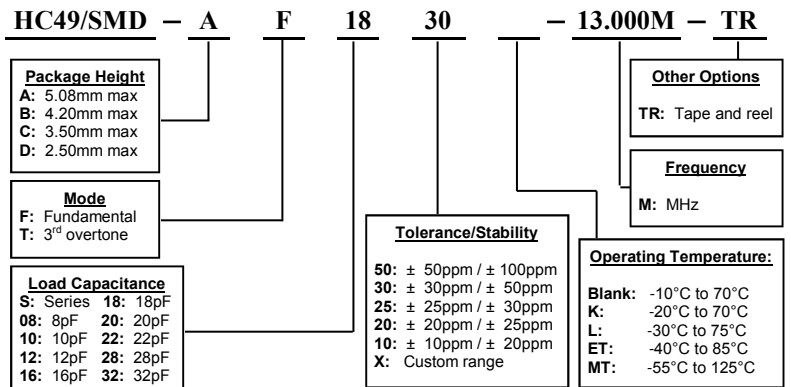
- WIDE FREQUENCY RANGE
- LOW COST / AT CUT
- LOW PROFILE / SUITABLE FOR REFLOW


**■ SPECIFICATION**

<b>FREQUENCY RANGE</b>	3.000MHz ~ 150.000MHz	
<b>FREQUENCY TOLERANCE @ 25°C</b>	±10ppm ~ ±50ppm (See P/N guide for other options)	
<b>FREQUENCY STABILITY</b>	±10ppm ~ ±50ppm (See P/N guide for other options)	
<b>OPERATING TEMPERATURE RANGE</b>	STD: -20°C to 70°C, Option: (See P/N guide for other options)	
<b>STORAGE TEMPERATURE RANGE</b>	-55°C to 125°C	
<b>LOAD CAPACITANCE</b>	STD: 18pF (See P/N guide for other options)	
<b>SHUNT CAPACITANCE</b>	7pF max.	
<b>INSULATION RESISTANCE</b>	500MΩ min. @ 100V <sub>DC</sub> ± 15V <sub>DC</sub>	
<b>DRIVE LEVEL</b>	500μW max.	
<b>AGING</b>	±3.0ppm / 1 <sup>st</sup> year max.	
<b>SHOCK</b>	±3.0ppm max. ±3Ω max.	
<b>VIBRATION</b>	±3.0ppm max. ±3Ω max.	
<b>EQUIVALENT SERIES RESISTANCE</b>	<b>Fundamental:</b>	3.000MHz ~ 4.000MHz: 150Ω max.    4.001MHz ~ 5.000MHz: 130Ω max. 5.001MHz ~ 6.000MHz: 120Ω max.    6.001MHz ~ 8.000MHz: 100Ω max. 8.001MHz ~ 10.000MHz: 80Ω max.    10.001MHz ~ 15.000MHz: 60Ω max. 15.001MHz ~ 54.000MHz: 40Ω max.
	<b>3<sup>rd</sup> overtone:</b>	30.001MHz ~ 36.000MHz: 80Ω max.    36.001MHz ~ 150.000MHz: 70Ω max.
<b>OPERATION MODE</b>	AT cut / Fundamental or 3 <sup>rd</sup> overtone	

**■ PACKAGE DIMENSIONS**

**■ SOLDER PATTERN**

**■ REFLOW PROFILE**


Note: Consult factory for detail

**■ PART NUMBERING GUIDE**


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