

# SMHF-49B/SMHF-49C/ SMHF-49D

## SURFACE MOUNT QUARTZ CRYSTAL RESONATORS 表貼石英晶體諧振器

High frequency (MHz) crystal resonators



### FEATURES

- AT-cut crystal performance
- Wide frequency range
- Low profile package
- Tape & Reel Packing
- AEC-Q200 Qualified



Parameters		Specifications
Nominal Frequency Range 標稱頻率範圍	$f_0$	3.5MHz ~ 40.0MHz (Fundamental) 30.0MHz ~ 80.0MHz (3rd Overtone)
Frequency Tolerance, Ta=25°C ± 3°C 常溫頻率偏差	$\Delta f/f$	±10ppm, ±30ppm
Load Capacitance 負載電容	$C_L$	18pF or customer specify
Frequency Tolerance over Operating Temperature Range with refer to 25°C 相對於常溫的頻率溫度特性	$\Delta f/f$	±10ppm, ±30ppm
Operating Temperature Range 工作溫度範圍	$T_{OPR}$	-20°C ~ +70°C, -40°C ~ +85°C
Storage Temperature Range 儲存溫度範圍	$T_{STG}$	-55°C to 125°C
Drive Level 激勵功率	DL	0.1mW (1mW Max.)
Shunt Capacitance 靜態電容	$C_0$	7pF Max.
Insulation Resistance 絕緣電阻	IR	500MΩ Min.
Aging 老化率	$\Delta f_A$	±5ppm/Year Max.

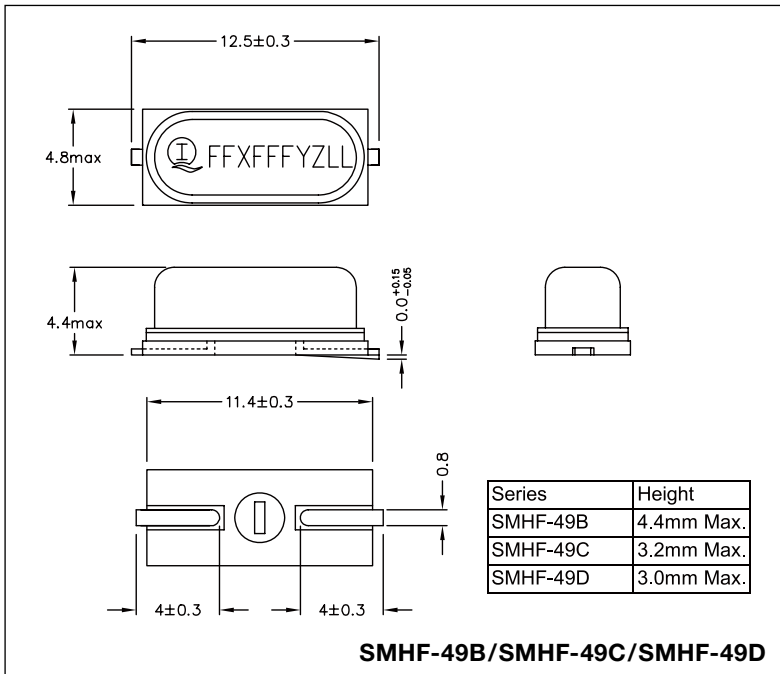
### SERIES RESISTANCE (ESR) 串聯諧振阻抗

Frequency Range	$3.5 < f_0 \leq 4.5$	$4.5 < f_0 \leq 6$	$6 < f_0 \leq 8$	$8 < f_0 \leq 12$	$12 < f_0 \leq 15$	$15 < f_0 \leq 18$
ESR	120Ω Max.	90Ω Max.	70Ω Max.	60Ω Max.	40Ω Max.	30Ω Max.

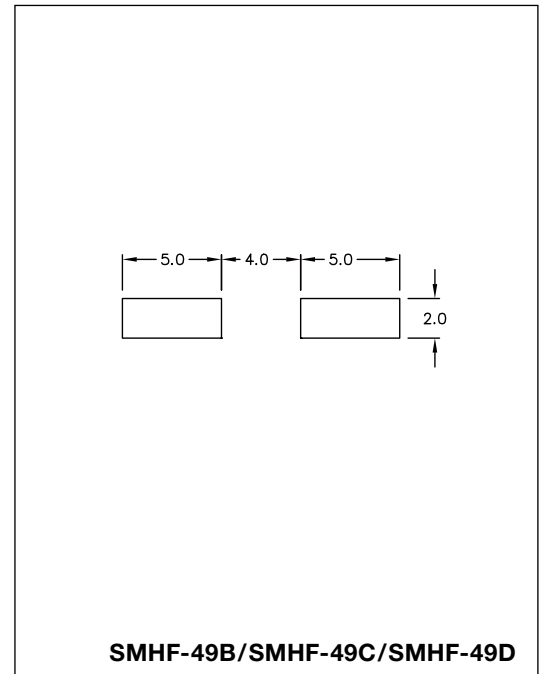
Frequency Range	$18 < f_0 \leq 40$	$30 < f_0 \leq 35$ (3.O.T)	$35 < f_0 \leq 40$ (3.O.T)	$40 < f_0 \leq 80$ (3.O.T)
ESR	25Ω Max.	100Ω Max.	80Ω Max.	70Ω Max.

Please consult our sales representatives for other specifications.  
如對其他規格查詢，請與我司銷售人員聯繫

### DIMENSION (mm)



### SOLDERING PATTERN (mm)



All specifications are subject to change without prior notice.  
本公司保留修改規格的權利。



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