

# ALL QUARTZ CRYSTAL RESONATORS (SMD)

## SMAQ-5032



### FEATURES

- Epoxy Resin Hermetic Seal
- Ultra-light weight and ultra-miniature size
- Wide frequency range
- 2 pads and 4 pads version available
- Pb-free



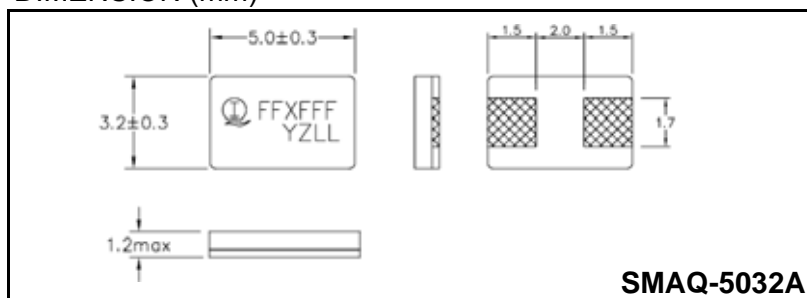
Item		Specifications
Nominal Frequency Range	$f_0$	12.0MHz ~ 40.0MHz (Fundamental)
Frequency Tolerance, $T_a=25^\circ\text{C} \pm 3^\circ\text{C}$	$\Delta f/f$	$\pm 30\text{ppm}$
Load Capacitance	$C_L$	18pF
Frequency Tolerance over Operating Temperature Range	$\Delta f/f$	$\pm 30\text{ppm}$
Operating Temperature Range	$T_{\text{OPR}}$	$-10^\circ\text{C} \sim +70^\circ\text{C}$
Storage Temperature Range	$T_{\text{STG}}$	$-55^\circ\text{C} \sim +125^\circ\text{C}$
Drive Level	DL	0.1mW (0.5mW Max.)
Shunt Capacitance	$C_0$	7pF Max.
Insulation Resistance	IR	500M $\Omega$ Min.
Aging	$\Delta f_A$	$\pm 5\text{ppm/Year Max.}$

### SERIES RESISTANCE (ESR)

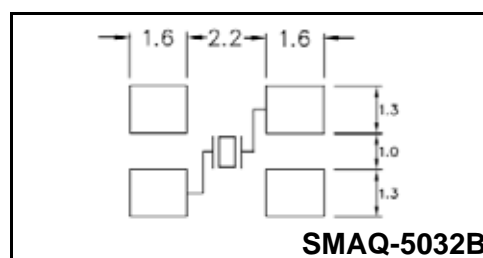
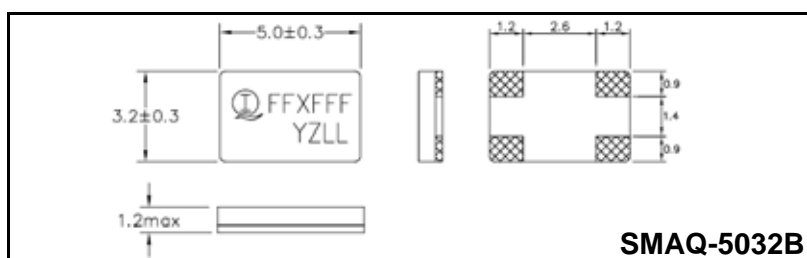
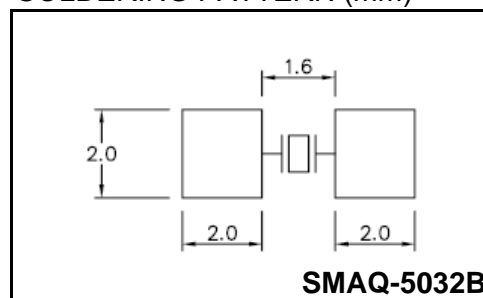
Frequency Range	$12 < f_0 < 16$	$16 < f_0 < 40$
ESR	80 $\Omega$ Max.	50 $\Omega$ Max.

Please consult our sales representatives for other specifications.

### DIMENSION (mm)



### SOLDERING PATTERN (mm)



All specifications are subject to change without notice.



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