

QUARTECH CRYSTAL UNITS

ELECTRICAL CHARAC

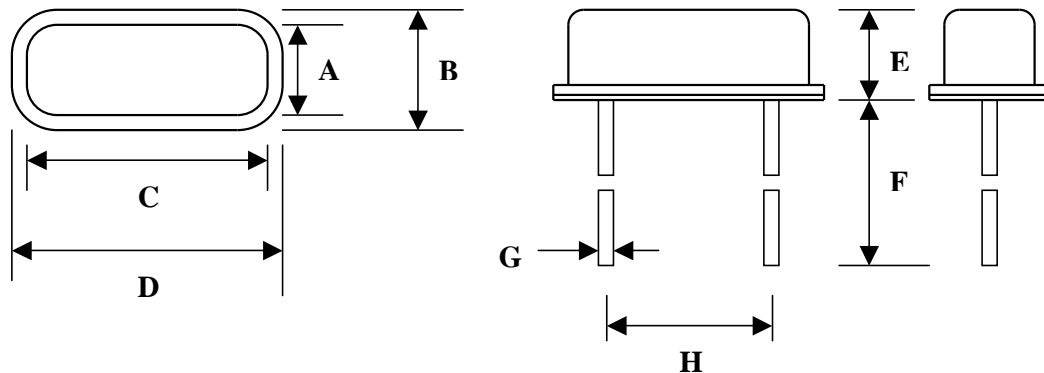
PARAMETERS	QAT-49	QAT-49SMD
Mode of Vibration	AT CUT or BT CUT	
Frequency Range	3.5 ~ 70 MHz	
Frequency Tolerance at 25 °C	± 30 ppm or ± 50 ppm	
Frequency VS Temperature	± 30 ppm or ± 50 ppm	
Operation Temperature Range	-10 °C TO +60 °C	
Storage Temperature Range	-40 °C TO +85 °C	
Aging (at 25°C)	± 5 ppm/year max.	
Shunt Capacitance	7.0 pf max.	
Drive Level	0.3 mW	
Test Circuit	Measured in Saunders 250A	
Load Capacitance	Customer Assign	
Insulation Resistance	500M OHM At DC 100V	

RESISRENCE OF SERIES RESONANCE

FREQUENCY \ TYPE	MODE OF VIBRATION	SERIES RESONANCE
3.5 MHz ~ 4.09 MHz	Fundamental / AT	150 Ω Max.
4.1 MHz ~ 4.79 MHz	Fundamental / AT	120 Ω Max.
4.8 MHz ~ 5.79 MHz	Fundamental / AT	100 Ω Max.
5.8 MHz ~ 9.99 MHz	Fundamental / AT	90 Ω Max.
10.0 MHz ~ 19.99 MHz	Fundamental / AT	50 Ω Max.
20.0 MHz ~ 33.99 MHz	Fundamental / AT or BT	40 Ω Max.
34.0 MHz ~ 70.00 MHz	3 rd overtone / AT	100 Ω Max.

DIMENSION (mm)

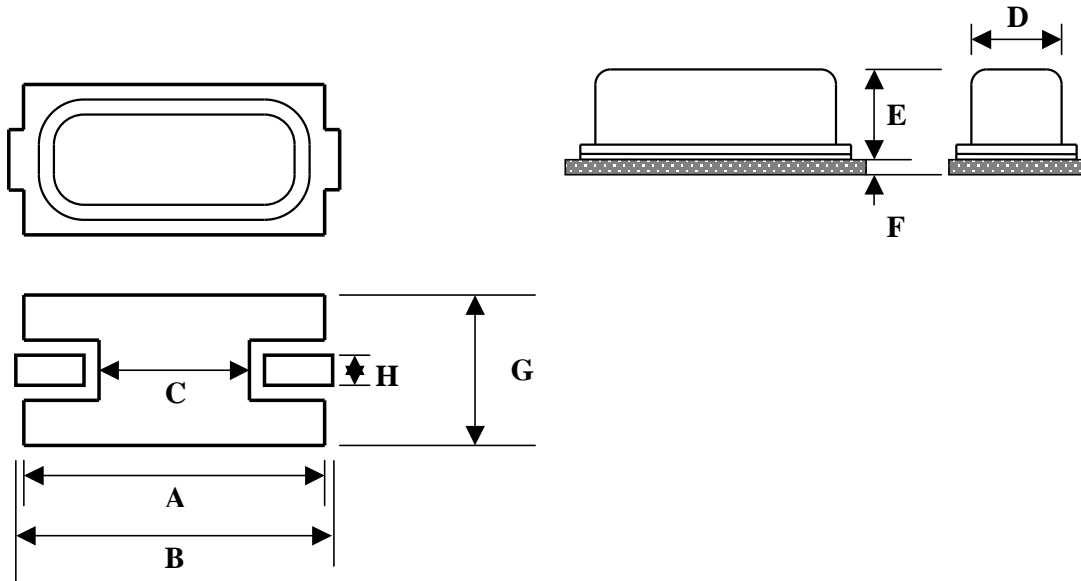
QAT-49



A	B	C	D	E	F	G	H
3.8max.	5.0max.	10.3max.	11.0max.	3.5max.	12.7±1.0	0.43±0.05	4.88±0.2

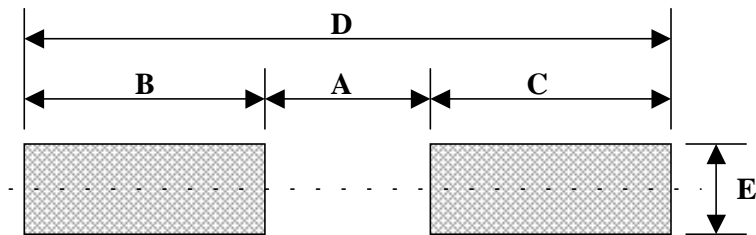
QUARTECH

QAT-49SMD



A	B	C	D	E	F	G	H
11.4±0.5	12.1±0.5	4.9±0.2	3.8max.	4.5max..	0.7max.	4.6±0.5	0.8±0.2

LAND PATTERN LAYOUT (EXAMPLE)



TYPE	A	B	C	D	E
QAT-49SMD	4.0	4.5	4.5	13.0	1.5