

Hy-Q International

PRODUCT INFORMATION CRYSTAL HOLDERS

The Hy-Q custom range of AT-cut crystals covers a frequency spectrum from 1 MHz, to 200MHz, with units in resistance weld holders. The resistance weld range of holders includes all common international standard types. Resistance welding is now the preferred type of encapsulation, having in recent years replaced the solder seal technique by virtue of its greater reliability and efficiency in production. Fig. 1 shows the frequency range available for each overtone order within each group of holder styles.

The size of the crystal enclosure determines the maximum size of the resonator that it can accommodate. This limits the lower end of the frequency range for each enclosure type. It may also limit the ruggedness, reproducibility and choice of equivalent circuit parameters.

FREQUENCY RANGES by HOLDER STYLE						
HOLDER		FREQUENCY MHz				
GROUP	STYLE	FUNDAMENTAL	3rd	5th	7th	9th
A	QC35, QC39, QC61 QC62, QC63, QC69	8 - 30	25 - 90	60 - 150	125 - 175	175 - 200
B	This group allocated to cold weld which we no longer offer					
C	QC38, QC68	16 - 30	40 - 90	70 - 150	125 - 175	N/A
D	QC41, QC44, QC45 QC46	8 - 30	25 - 90	60 - 150	125 - 175	175 - 200
E	QC49, QC50, QC53 QC55, QC56, QC59	3 - 30	18 - 90	60 - 150	125 - 175	175 - 200
F	QC48, QC51	1 - 30	15 - 90	60 - 150	125 - 175	175 - 200
G	QC52, QC54, QC57	4 - 30	18 - 90	60 - 150	125 - 175	175 - 200

Fig. 1

