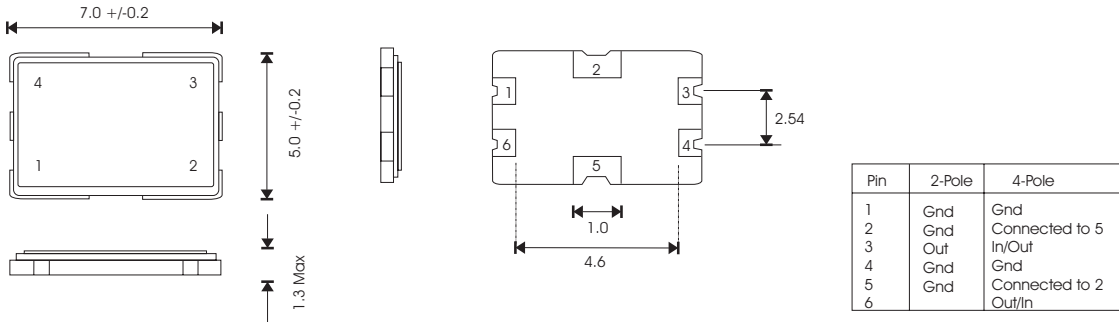


# Specify AEL



## Surface Mounted Monolithic Crystal Filters 21.4MHz & 45MHz

### Quartz Crystal Filters



### FEATURES

- Small Size
- Surface Mounted
- Low Insertion Loss
- Single Package 4-Pole

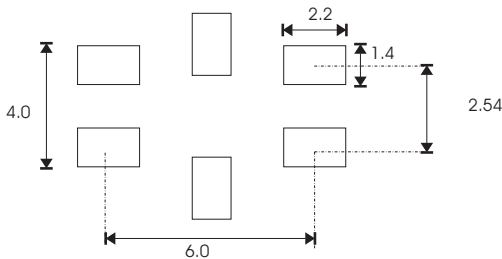
### APPLICATIONS

- UHF & VHF Radio
- Wireless Telemetry
- Wireless LAN
- Pagers

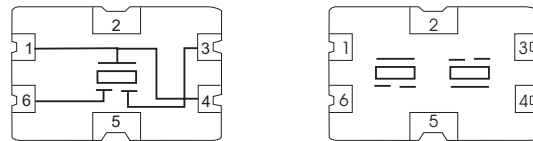
### STANDARD SPECIFICATIONS

| Model    | Centre Frequency (MHz) | No Poles | Passband Width at -3dB (kHz) | Ripple (dB) | Insertion Loss (dB) | StopBand Width |          | Guaranteed Attenuation       |              | Terminating Impedance (kOhm/pF) | Qty per Filter |
|----------|------------------------|----------|------------------------------|-------------|---------------------|----------------|----------|------------------------------|--------------|---------------------------------|----------------|
|          |                        |          |                              |             |                     | (dB)           | (kHz)    | (dB)                         | (FO +/- kHz) |                                 |                |
| 21MS7.5A | 2140000                | 2        | +/-3.75                      | 1           | 15                  | 18.0           | +/- 18   | 50                           | -910 +/- 10  | 0.85/6.0                        | 1              |
| 21MS7.5B |                        | 4        |                              | 1           | 2.5                 | 35             | +/- 14   | 80                           | -910 +/- 10  | 0.85/3.5                        | 2              |
| 45MS7.5A | 45.000 Fundamental     | 2        | +/-7.5                       | 10          | 2.0                 | 10.0           | +/- 12.5 | 70                           | -910 +/- 10  | 0.20/4                          | 1              |
| 21MS6A   | 2140000                | 2        |                              | 1           | 15                  | 15.0           | +/- 45   | 50                           | -910 +/- 10  | 3/0.5                           | 1              |
| 21MS6B   |                        | 4        | 1                            | 3.0         | 35.0                | +/- 25         | 70       | +200 ~ +1000<br>-200 ~ -1000 | 15/1.5       | 1                               |                |
| 45MS7.5A | 45.000 Fundamental     | 2        | +/-7.5                       | 10          | 4.0                 | 15.0           | +/- 25   | 70                           | -910 +/- 10% | 0.65/3                          | 1              |
| 45MS7.5B |                        | 4        |                              | 10          | 4.0                 | 30.0           | +/- 25   | 90                           | -200 ~ -1000 | 0.9/2.0                         | 1              |
|          |                        | 4        |                              | 70          | +200 ~ +600         |                |          |                              |              |                                 |                |
|          |                        |          |                              |             |                     |                |          | 20                           | +600 ~ +1000 |                                 |                |

### SOLDER PATTERN



### INTERNAL CONNECTION



www.aelcrystals.co.uk

quartz based frequency control components

Order Hotline +44 1293 524245

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