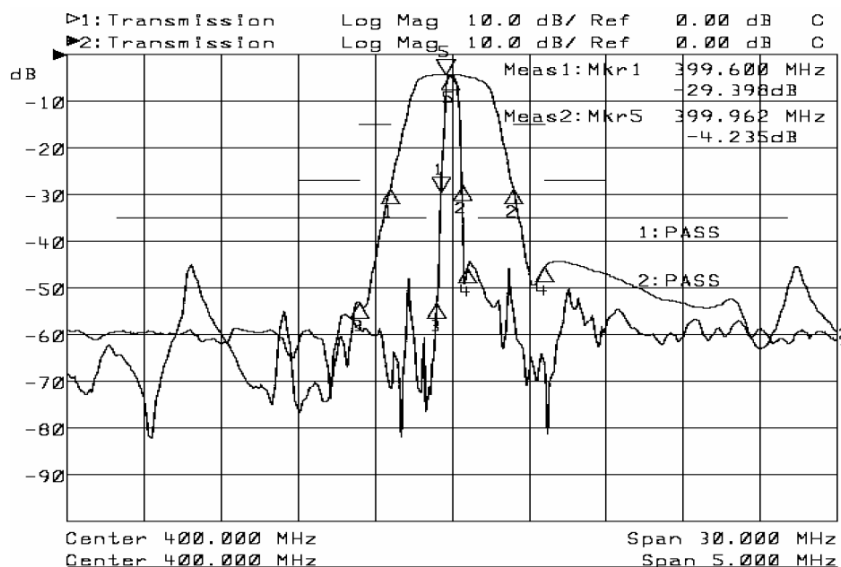




## DESCRIPTION

400 MHz surface acoustic wave filter in 5x5 mm surface mount package to be used as the IF filter in GSM equipment.

## TYPICAL PERFORMANCE



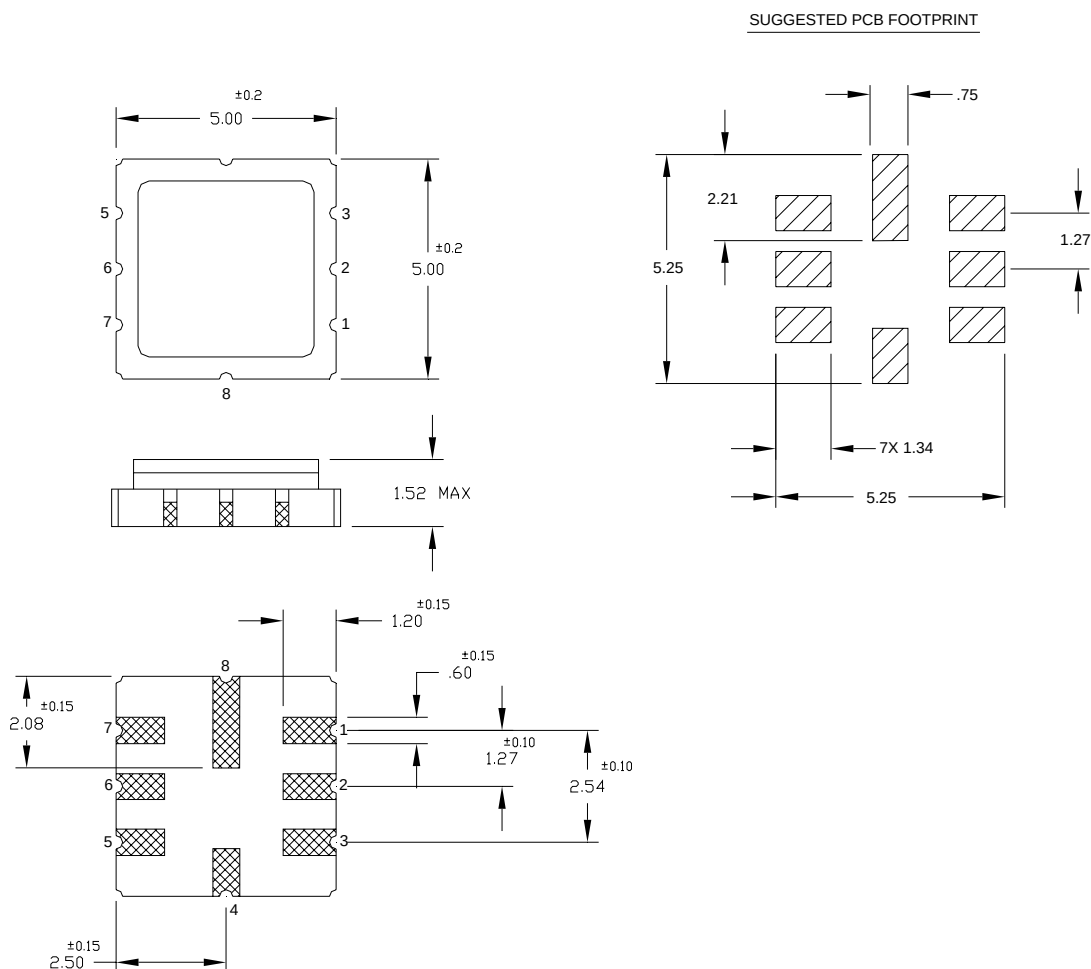
## SPECIFICATION

| Parameter                          | Min              | Typ   | Max  | Units |
|------------------------------------|------------------|-------|------|-------|
| Center Frequency (Fc)              |                  | 400.0 |      | MHz   |
| Insertion Loss                     |                  | 4     | 6    | dB    |
| Bandwidth (3dB)                    | 166              |       |      | KHz   |
| Amplitude Ripple <sup>1</sup>      |                  |       | 2.0  | dB    |
| Rejection, 50 to 398.5 MHz         | 35               |       |      | dB    |
| Rejection, 398.5 to 399.2 MHz      | 20               |       |      | dB    |
| Rejection, 399.2 to 399.4 MHz      | 10               | 53    |      | dB    |
| Rejection, 399.4 to 399.6 MHz      | 7                | 29    |      | dB    |
| Rejection, 400.4 to 400.6 MHz      | 7                | 27    |      | dB    |
| Rejection, 400.6 to 400.8 MHz      | 10               | 45    |      | dB    |
| Rejection, 400.8 to 401.5 MHz      | 20               |       |      | dB    |
| Rejection, 401.5 to 500 MHz        | 35               |       |      | dB    |
| Group Delay Variation <sup>1</sup> |                  |       | 1.0  | usec  |
| Operating Temperature              | -30              |       | + 80 | ° C   |
| Input Power Level                  |                  |       | 0    | dBm   |
| Terminating Impedance              | 600 ohm // 90 nH |       |      |       |

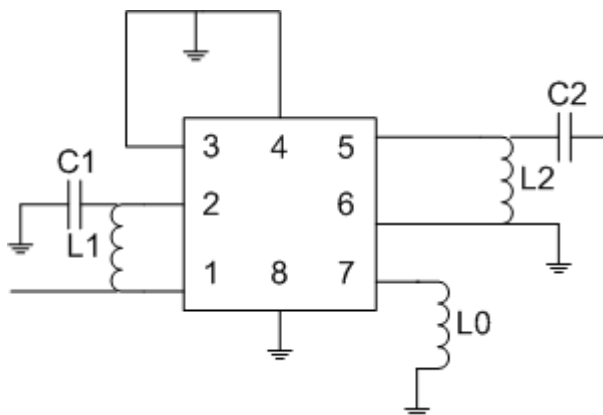
Note: 1. Over Fc ± 83 KHz



## PACKAGE OUTLINE AND RECOMMENDED PCB FOOTPRINT



## TEST CIRCUIT



C1: 2.7 pF      L0: 27 nH  
C2: 2.7 pF      L1: 27 nH  
                    L2: 47H

All specifications are believed to be accurate and reliable. However, ICS reserves the right to make changes without notice.  
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