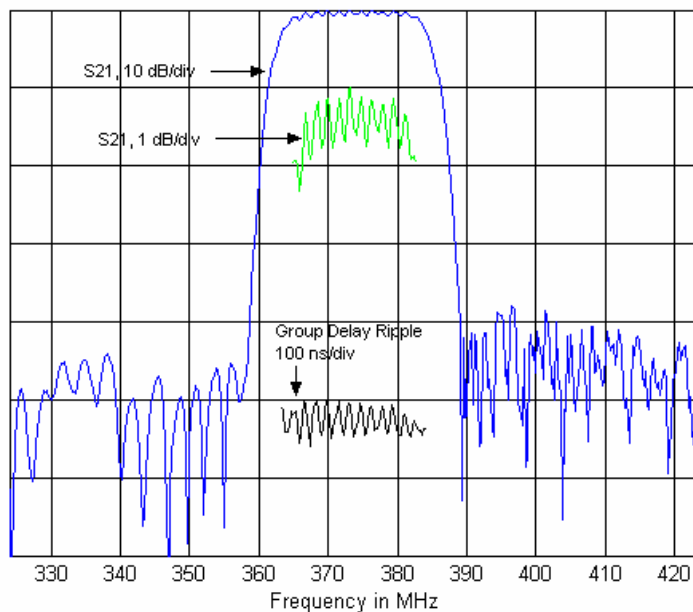
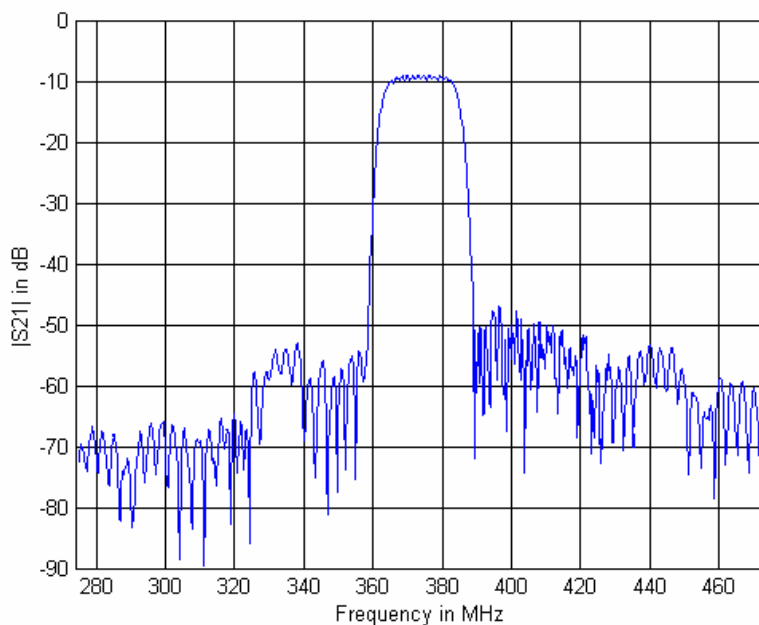




## DESCRIPTION

374 MHz Surface Acoustic Wave (SAW) filter to be used as the IF filter in wireless LAN equipment.

## TYPICAL PERFORMANCE





## MAXIMUM RATING

| Parameter                                | Min | Max | Units |
|------------------------------------------|-----|-----|-------|
| Operating Temperature Range              | -20 | +80 | °C    |
| Storage Temperature Range                | -40 | +85 | °C    |
| Input Power Level                        |     | 10  | dBm   |
| Max. D. C. Voltage between Each Terminal |     | 0   | V     |

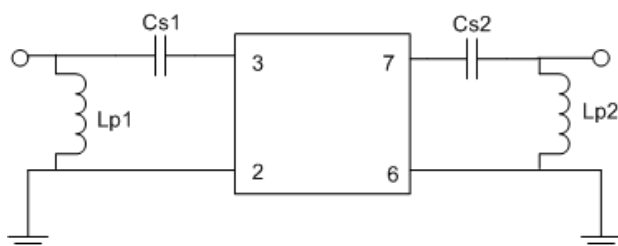
## SPECIFICATION

| Parameter                          | Min | Typ   | Max | Units |
|------------------------------------|-----|-------|-----|-------|
| Center Frequency (Fc)              |     | 374.0 |     | MHz   |
| Insertion Loss                     |     | 8.5   | 10  | dB    |
| Bandwidth (3dB)                    | 17  | 21    |     |       |
| Amplitude Ripple <sup>1</sup>      |     | 0.6   | 1.5 | dB    |
| Rejection, 274 to 324 MHz          | 48  | 52    |     | dB    |
| Rejection, 324 to 352 MHz          | 40  | 44    |     | dB    |
| Rejection, 352 to 357.5            | 30  | 42    |     | dB    |
| Rejection, 390.5 to 396            | 30  | 38    |     | dB    |
| Rejection, 396 to 417              | 33  | 38    |     | dB    |
| Rejection, 417 to 474              | 40  | 45    |     |       |
| Group Delay Variation <sup>1</sup> |     | 40    | 100 | nsec  |
| Triple Transit Suppression         | 30  | 35    |     | dB    |

Note: 1. Over  $F_c \pm 7$  MHz

## TEST CIRCUIT

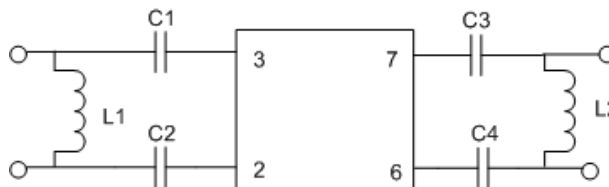
A) Matched to 50  $\Omega$  single ended input/output



Cs1 = 27 pF  
Lp1 = 10 nH

Cs2 = 33 pF  
Lp2 = 10 nH

B) Matched to 200  $\Omega$  balanced input/output

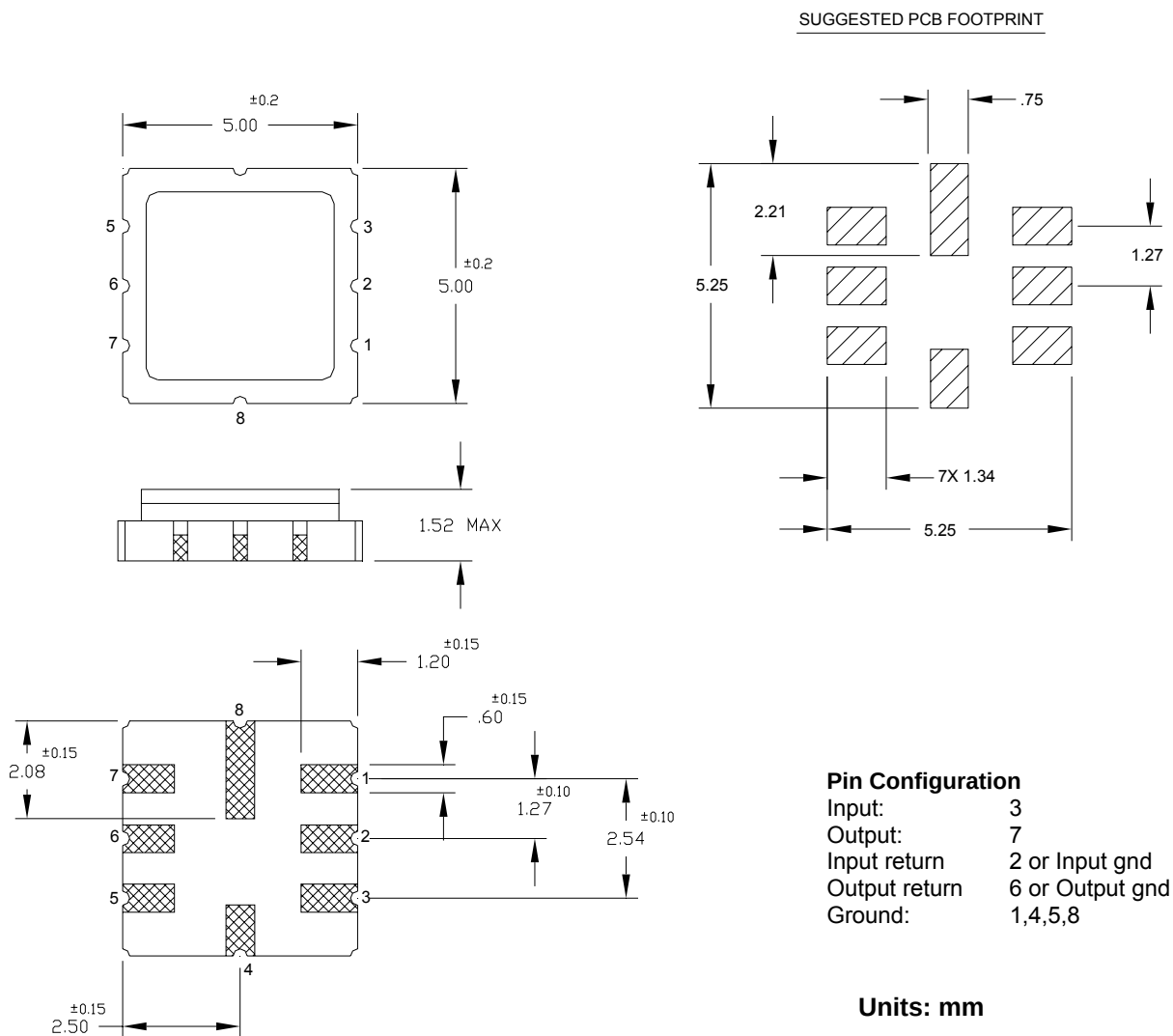


C1, C2 = 18 pF  
Lp1 = 18 nH

C3, C4 = 18 pF  
Lp2 = 18 nH



## PACKAGE OUTLINE AND RECOMMENDED PCB FOOTPRINT



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