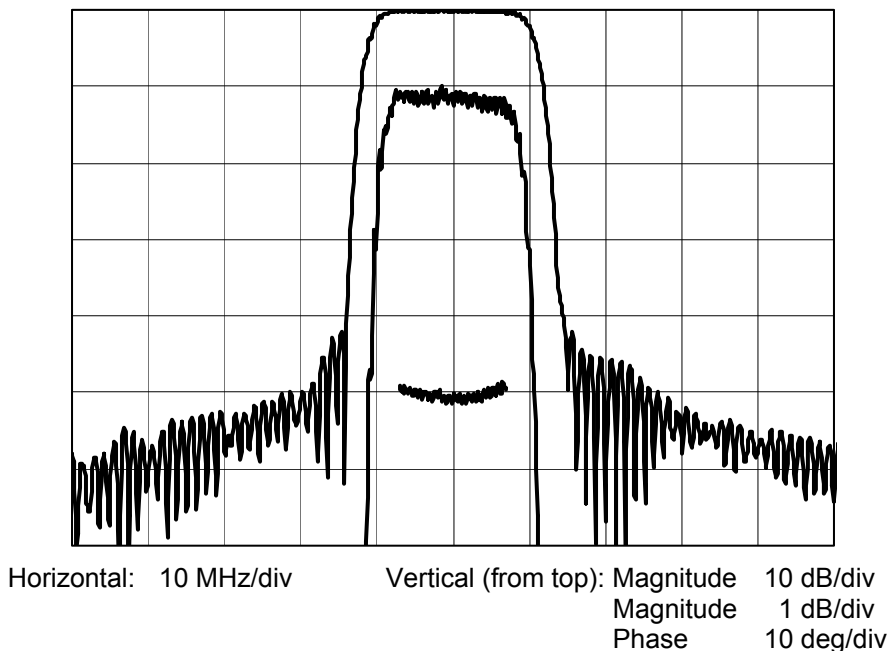


## TYPICAL PERFORMANCE



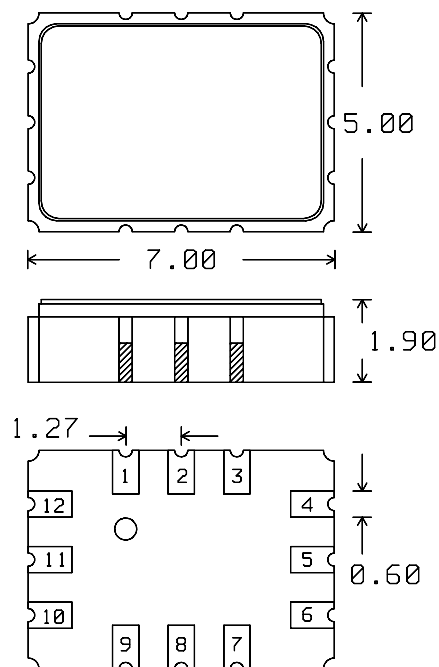
## SPECIFICATION

NOTE – All electrical specifications apply over the whole of the operating temperature range.

| Parameter                                                                 | Min | Typ   | Max | Units   |
|---------------------------------------------------------------------------|-----|-------|-----|---------|
| Center Frequency (Fc)                                                     |     | 240   |     | MHz     |
| Insertion Loss at Fc                                                      |     | 7.7   | 11  | dB      |
| Amplitude Ripple <sup>1</sup>                                             |     | 0.5   | 1.4 | dB p-p  |
| Amplitude Ripple in any 3.5 MHz interval <sup>1</sup>                     |     | 0.35  | 1.0 | dB p-p  |
| Rejection (256.5 MHz – 258 MHz) <sup>2</sup>                              | 38  | 41    |     | dB      |
| Ultimate Rejection (150 MHz – 224 MHz and 258 MHz – 330 MHz) <sup>2</sup> | 40  | 43    |     | dB      |
| Phase Linearity <sup>3</sup>                                              |     | 4     | 15  | deg p-p |
| Group Delay Ripple <sup>1</sup>                                           |     | 40    | 100 | ns p-p  |
| Average Delay <sup>1</sup>                                                |     | 0.785 | 1.0 | μs      |
| Triple Travel Suppression                                                 | 30  | 40    |     | dB      |
| Return Loss at Input and Output <sup>3,4</sup>                            | 9.5 | 12    |     | dB      |
| Input Power                                                               |     |       | 15  | dBm     |
| Source and Load Impedance                                                 |     | 50    |     | Ω       |
| Operating Temperature Range                                               | -40 |       | +80 | ° C     |

- Notes: 1. Defined over the pass-band frequency range  $F_c \pm 7$  MHz (i.e. 233 MHz to 247 MHz).  
2. Attenuation levels (dB) are referenced to the level at  $F_c$ .  
3. Defined over 90% of the pass-band frequency range (i.e. 233.7 MHz to 246.3 MHz).  
4. When matched using external components in MNC test fixture.

## PACKAGE OUTLINE

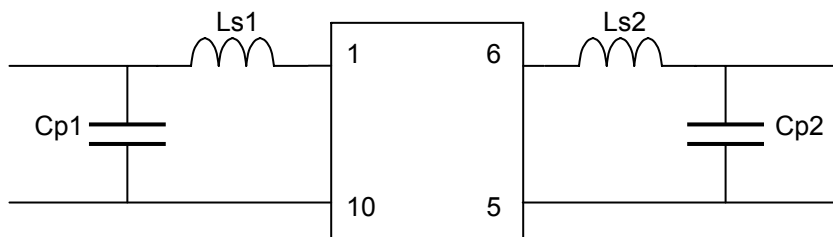


**Units:** mm

### Pin Configuration:

|               |                  |
|---------------|------------------|
| Input:        | 10               |
| Input Return  | 12               |
| Output:       | 4                |
| Output Return | 6                |
| Ground:       | 1,2,3,5,7,8,9,11 |

## MATCHING CIRCUIT



Typical component values:      Ls1 = 18 nH      Ls2 = 18 nH  
                                         Cp1 = 33 pF      Cp2 = 31 pF

### Notes:

1. Component values may change depending on board layout. Component values shown are those used in the Micro Networks test fixture.
2. Recommended maximum component tolerances – inductors 2%, capacitors 1%. Minimum inductor Q=45.

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