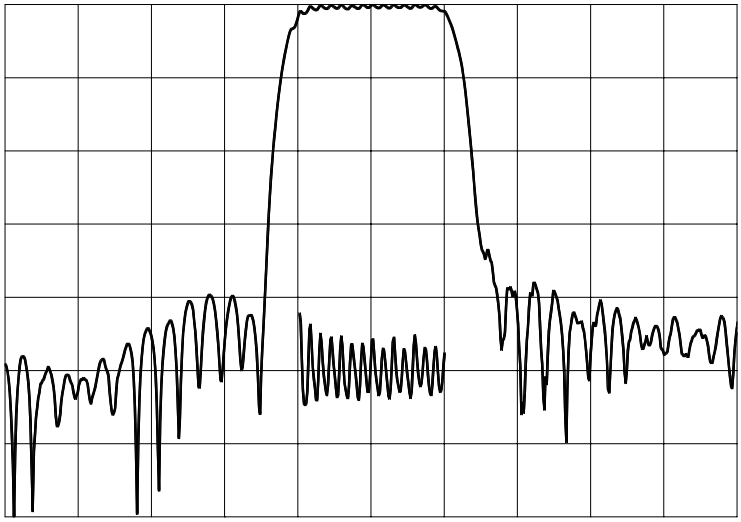
*Micro Networks, 324 Clark Street, Worcester, MA 01606, USA tel: 508-852-5400, fax:508-852-8456, www.micronetworks.com*

PRELIMINARY

## TYPICAL PERFORMANCE



Horizontal: 10 MHz/div  Vertical (from top): Magnitude 10 dB/div
Group Delay Deviation 50 ns/div

## SPECIFICATION

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Center Frequency (Fc) | | 280 | | MHz |
| Insertion Loss[1] | | | 10 | dB |
| Lower 3 dB Frequency | | | 271.5 | MHz |
| Upper 3 dB Frequency | 288.5 | | | MHz |
| Passband Ripple[2] | | | 2 | dB |
| Group Delay Variation[2] | | | 100 | ns |
| Rejection | | | | |
| Fc-60 to Fc-40 MHz | 40 | | | dB |
| Fc-40 to Fc-22 MHz | 38 | | | dB |
| Fc-22 to Fc-16 MHz | 30 | | | dB |
| Fc+16 to Fc+22 MHz | 25 | | | dB |
| Fc+22 to Fc+40 MHz | 34 | | | dB |
| Fc+40 to Fc+60 MHz | 40 | | | dB |
| Substrate | | $LiNbO_3$ | | - |
| Operating Temperature Range[3] | -10 | 25 | 85 | °C |
| System Source and Load Impedance | | 50 | | Ω |

Notes: 1. Measured at Fc MHz.
2. Evaluated over 271.5-288.5 MHz.
3. Limits to be met over operating temperature range. Production test to use appropriate guard bands.

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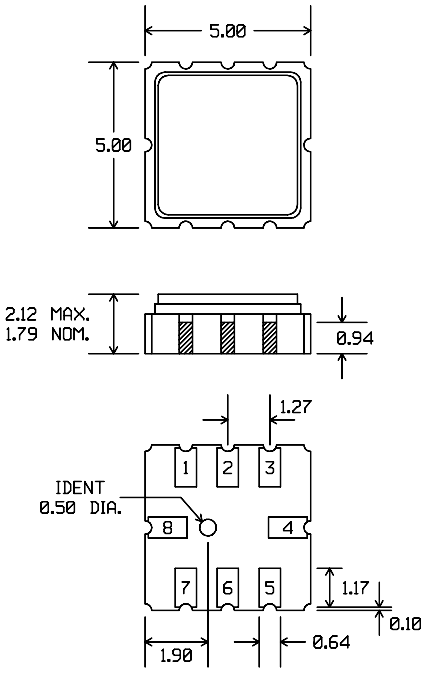
PRELIMINARY

## PACKAGE OUTLINE

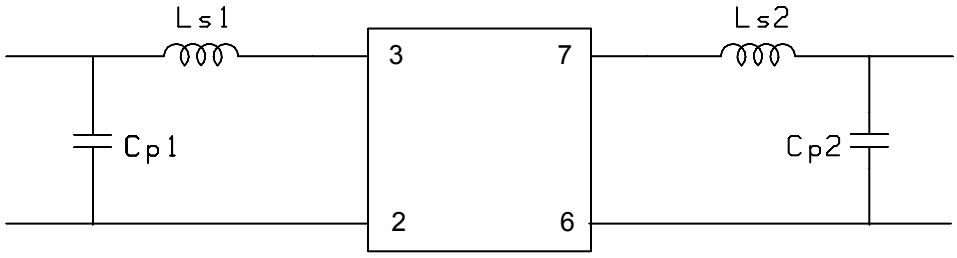



**Units:** mm

**Pin Configuration:**

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

## MATCHING CIRCUIT




| | | |
|---|---|---|
| Component values in 50 Ω: | Ls1 = 56 nH | Ls2 = 47 nH |
| (Minimum Q = 40) | Cp1 = 10 pF | Cp2 = 8 pF |

PRELIMINARY

Notes

- Optimum component values may change depending on board layout. The values shown here are intended as a guide only.

ISO 9001 Registered