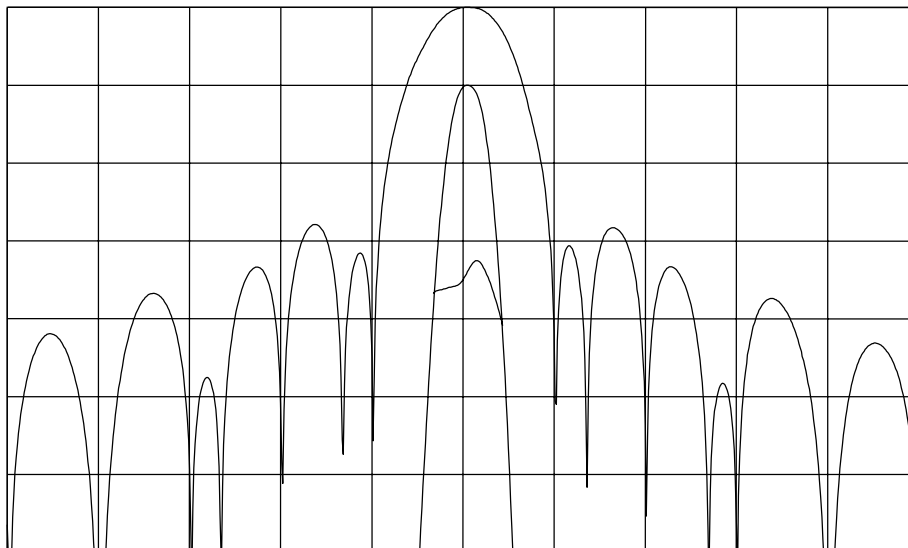




## TYPICAL PERFORMANCE



Horizontal: 2.0 MHz/div

Vertical (from top): Magnitude  
Magnitude  
Phase

10 dB/div  
1 dB/div  
5 deg/div

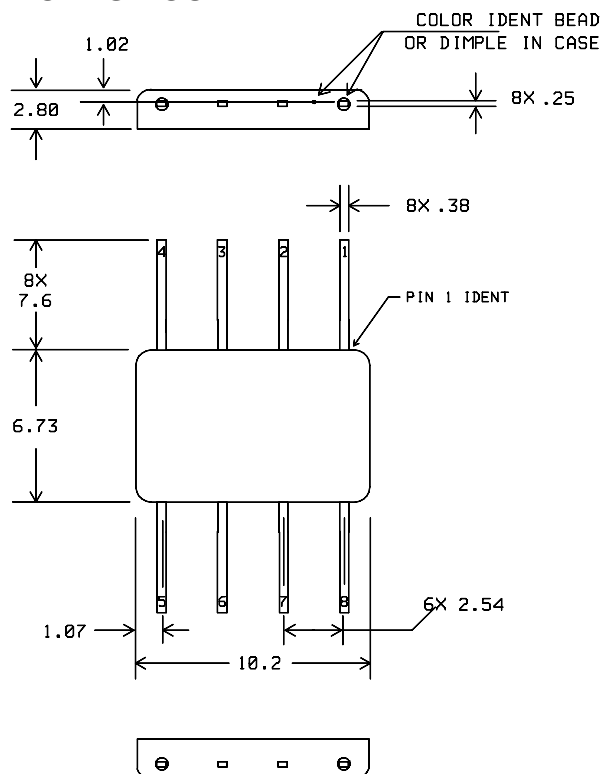
## SPECIFICATION

| Parameter                          | Min    | Typ    | Max    | Units   |
|------------------------------------|--------|--------|--------|---------|
| Center Frequency (Fc) <sup>1</sup> | 299.90 | 300.00 | 300.10 | MHz     |
| Insertion Loss                     |        | 9.8    | 10.5   | dB      |
| 3 dB Bandwidth                     | 1.40   | 1.45   |        | MHz     |
| 20 dB Bandwidth                    |        | 3.50   |        | MHz     |
| Phase Linearity (in 3 dB BW)       |        | 4      | 5      | deg p-p |
| Phase Slope (in 3 dB BW)           |        | 360    |        | deg     |
| Insertion Phase <sup>2</sup>       |        | 0      |        | deg     |
| Turn Over Temperature              | 35     | 45     | 55     | ° C     |
| Source and Load Impedance          |        | 50     |        | Ω       |
| Input Power                        |        | +10    | +15    | dBm     |
| Operating Temperature Range        | -30    |        | 100    | ° C     |

Notes: 1. Any specified bandwidths are referenced to this frequency.  
2. Parameter measured at Fc.



## PACKAGE OUTLINE

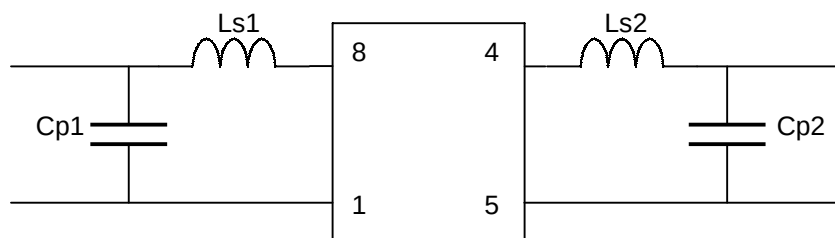


Units: mm

### Pin Configuration:

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

## MATCHING CIRCUIT



Typical component values:

Ls1 = 130 nH  
Cp1 = 20 pF

Ls2 = 100 nH  
Cp2 = 22 pF

(minimum inductor Q = 45)

- Notes
- Requires 2% matching components.
  - Component values may change depending on board layout.

ISO 9001  
Registered

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