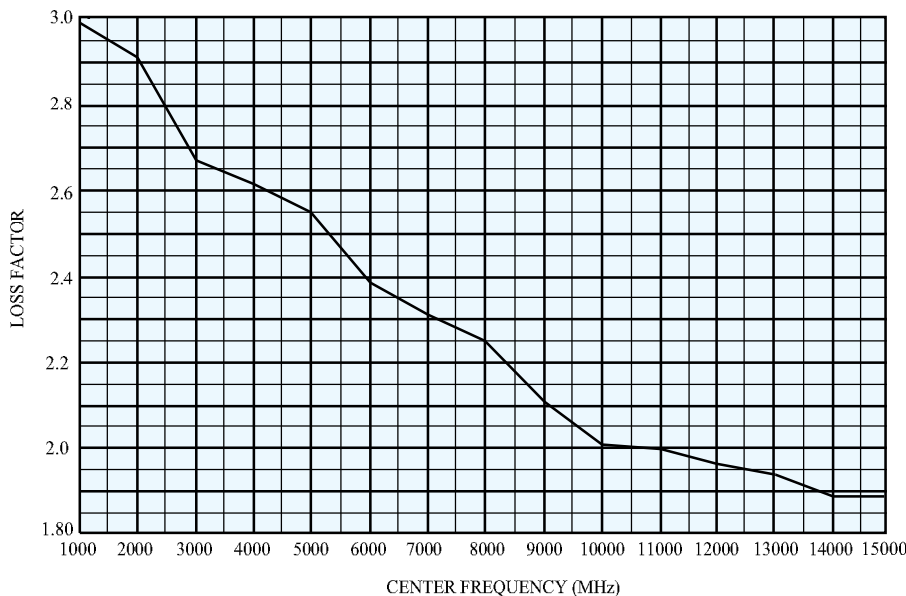




| SPECIFICATIONS                                      | STANDARD          | *SPECIAL          |
|---|-------------------|-------------------|
| <b>ELECTRICAL</b>                                   |                   |                   |
| Center Frequency (Fc)                               | 1000 to 15000 MHz | 1000 to 15000 MHz |
| Notch width (% of Fc)                               | 1 to 28           | .5 to 28          |
| Notch depth   | 10 to 60 dB       | 10 to 60 dB       |
| Number of Sections Available                        | 3 to 6            | 2 to 10           |
| Nominal Impedance                                   | 50Ω               | 50Ω               |
| Maximum Insertion Loss                              | See Curve         | See Curve         |
| Maximum VSWR (at 2 x Fc)                            | 2.0/1             | 1.5/1             |
| Attenuation in the Stopband                         | 50 TO 60 dB       | 50 to 60 dB       |
| Maximum Input Power (Average) (Watts to 10,000 ft.) | 100 Watts         | See Standard      |
| Maximum Input Power (Peak) (Watts to 10,000 ft.)    | 2500 Watts        | See Standard      |
| <b>ENVIRONMENTAL</b>                                |                   |                   |
| Shock   | 25 G's            | 50 G's            |
| Vibration   | 10 G's            | 20 G's            |
| Humidity  | 95% relative      | 100% relative     |
| Altitude  | Unlimited         | Unlimited         |
| Temperature Range (Operating)                       | -40 °C to +85 °C  | -55 °C to 125 °C  |
| Temperature (Non-Operating)                         | -65 °C to 125 °C  | -65 °C to 150 °C  |
| <b>MECHANICAL</b>                                   |                   |                   |
| Approximate Weight in oz.                           | 1.4 x H x L x W   | 1.4 x H x L x W   |
| Mounting Provisions                                 | See Next Page     | See Next Page     |
| Special Configurations                              | Consult Factory   | Consult Factory   |

\*Contact Lark Engineering



**INSERTION LOSS:**

The maximum Insertion Loss at center frequency is equal to:

$$LF \times (N + 0.5) + 0.1$$

% 3 dB BW

Where:

LF = Loss Factor  
N = Number of Sections

% 3dB BW:

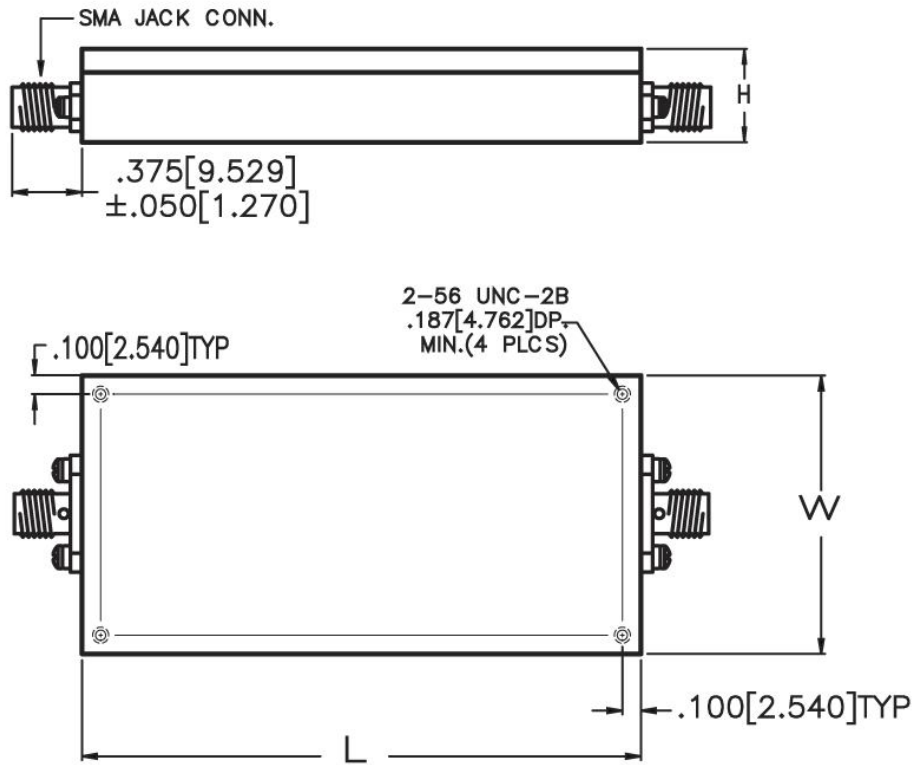
$$\frac{3dB BW (MHz) \times 100}{CENTER FREQUENCY (MHz)}$$

Example:

A 5 section CN with a center frequency of 1000 MHz and a 3dB BW of 20 MHz would be:

$$\frac{1.2 \times 5.5}{5} = 1.32$$

$$1.32 + 0.1 = 1.42 \text{ dB}$$



$$\text{Aprox. L DIMENSION} = \frac{2950}{F_c \text{ (MHz)}} \times N + K \text{ inches}$$

| TYPE | K    |
|------|------|
| SMA  | .500 |
| N    | .800 |

HEIGHT IN INCHES

| TYPE | HEIGHT |
|------|--------|
| SMA  | .500   |
| N    | 1.00   |

WIDTH IN INCHES

| FREQUENCY RANGE | SMA | TYPE N |
|-----------------|-----|--------|
| 1000-2000 MHz   | 4.5 | 5.0    |
| 2000-5000 MHz   | 3.0 | 3.5    |
| 5000-10000 MHz  | 2.2 | 2.5    |
| 10000-15000 MHz | 1.7 | 2.0    |

CONNECTORS AVAILABLE ON CAVITY NOTCH

| LARK CODE | TYPE     | INCHES | MM   |
|-----------|----------|--------|------|
| A         | SMA JACK | .375   | 9.5  |
| B         | SMA PLUG | .507   | 12.9 |
| G         | N JACK   | .736   | 18.7 |
| H         | N PLUG   | .819   | 20.8 |

The size shown is a standard used by Lark to facilitate low cost, easily reproduced units. Should you require another size, please submit all of your requirements, both electrical and mechanical, to Lark Engineering. This will enable Lark to quote the optimum design for your application.