

# Coaxial Bandpass Filter

## ZFBP-400K-S+

50Ω 0.35 to 0.45 MHz



Generic photo used for illustration purposes only  
CASE STYLE: H16

### The Big Deal

- Very low frequency bandpass filter
- Extended stopband all the way up to 200 MHz
- Connectorized package

### Product Overview

ZFBP-400K-S+ is a 50Ω bandpass filter. This is built into a rugged connectorized package of size 1.25" x 1.25" x 0.75". This offers very good matching in passband and excellent stopband rejection. This is suitable for semiconductor processing equipment and other instrumentation applications for low frequency RF and signal processing.

### Key Features

| Feature                      | Advantages                                                    |
|------------------------------|---------------------------------------------------------------|
| Good passband insertion loss | Low insertion loss suitable for high performance application. |
| Sharp roll-off               | Excellent near band rejection.                                |
| Extended stopband rejection  | Spurious rejection and avoids using additional filters.       |

#### Notes

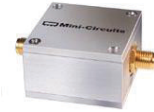
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50Ω 0.35 to 0.45 MHz

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### Features

- High Stopband rejection
- Sharp roll-off
- Connectorized package

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Connectors Model

**SMA-FEMALE** ZFBP-400K-S+

**BRACKET (OPTION "B")**

### Electrical Specifications at 25°C

| Parameter        |                  | F#    | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|------------------|------------------|-------|-----------------|------|------|------|------|
| Pass Band        | Center Frequency | —     | —               | —    | 0.4  | —    | MHz  |
|                  | Insertion Loss   | F1-F2 | 0.35 - 0.45     | —    | 1.1  | 3.0  | dB   |
|                  | VSWR             | F1-F2 | 0.35 - 0.45     | —    | 1.5  | 2.0  | :1   |
| Stop Band, Lower | Insertion Loss   | DC-F3 | DC - 0.18       | 20   | 33   | —    | dB   |
|                  | VSWR             | DC-F3 | DC - 0.18       | —    | 67   | —    | :1   |
| Stop Band, Upper | Insertion Loss   | F4-F5 | 0.8 - 200       | 20   | 34   | —    | dB   |
|                  | VSWR             | F4-F5 | 0.8 - 200       | —    | 19   | —    | :1   |

### Maximum Ratings

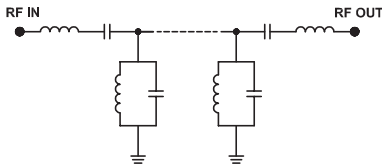
|                       |                |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C  |
| Storage Temperature   | -55°C to 100°C |
| RF Power Input        | 0.5W max.      |

Permanent damage may occur if any of these limits are exceeded.

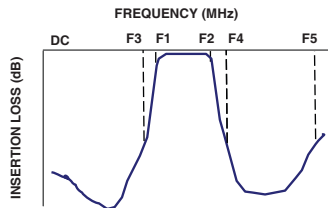
### Applications

- Harmonic rejection
- Instrumentation
- Industrial processing equipments
- Lab use

### Functional Schematic



### Typical Frequency Response

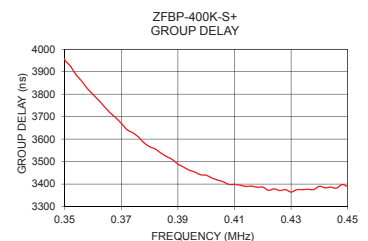
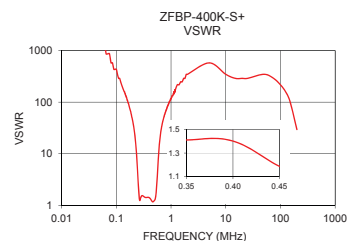
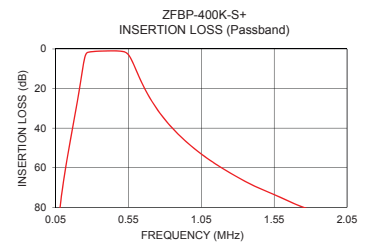
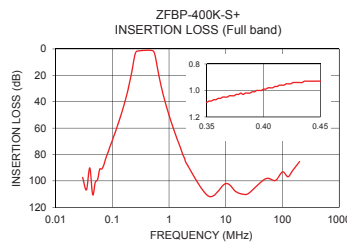


### Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|-----------|-----------------|--------------------|
| 0.100           | 69.34               | 434.30    | 0.350           | 3952.77            |
| 0.180           | 34.59               | 69.49     | 0.352           | 3924.83            |
| 0.200           | 26.28               | 42.38     | 0.354           | 3886.64            |
| 0.225           | 15.16               | 16.72     | 0.356           | 3857.77            |
| 0.240           | 8.25                | 6.61      | 0.358           | 3825.18            |
| 0.255           | 3.22                | 2.10      | 0.400           | 3439.26            |
| 0.275           | 1.61                | 1.32      | 0.416           | 3390.83            |
| 0.350           | 1.09                | 1.41      | 0.420           | 3386.64            |
| 0.400           | 0.99                | 1.40      | 0.424           | 3378.61            |
| 0.450           | 0.93                | 1.19      | 0.426           | 3371.04            |
| 0.525           | 1.51                | 1.49      | 0.430           | 3364.52            |
| 0.560           | 3.96                | 3.59      | 0.432           | 3374.76            |
| 0.585           | 7.65                | 7.80      | 0.434           | 3375.23            |
| 0.625           | 14.37               | 18.90     | 0.436           | 3376.39            |
| 0.800           | 35.65               | 66.82     | 0.436           | 3376.39            |
| 1.200           | 60.56               | 173.72    | 0.438           | 3375.58            |
| 2.000           | 86.38               | 347.44    | 0.440           | 3390.13            |
| 50.000          | 98.50               | 347.44    | 0.442           | 3383.26            |
| 100.000         | 93.23               | 217.15    | 0.444           | 3386.29            |
| 200.000         | 85.40               | 29.46     | 0.450           | 3390.13            |

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



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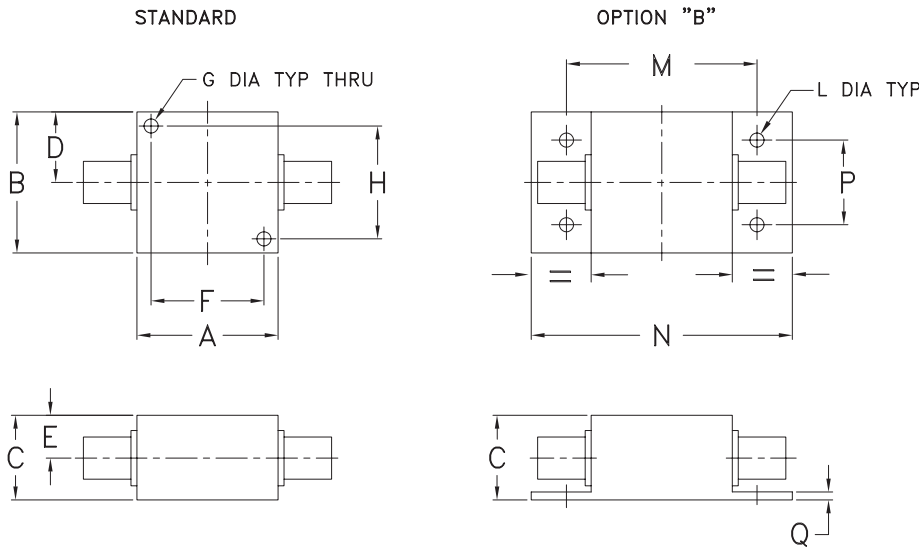
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M171494  
ZFBP-400K-S+  
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200117  
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Coaxial Connections

|          |            |
|----------|------------|
| PORT - 1 | SMA-FEMALE |
| PORT - 2 | SMA-FEMALE |

Outline Drawing



Outline Dimensions ( inch mm )

|       |       |       |       |       |       |      |       |
|-------|-------|-------|-------|-------|-------|------|-------|
| A     | B     | C     | D     | E     | F     | G    | H     |
| 1.25  | 1.25  | .75   | .63   | .38   | 1.000 | .125 | 1.000 |
| 31.75 | 31.75 | 19.05 | 16.00 | 9.65  | 25.40 | 3.18 | 25.40 |
| J     | K     | L     | M     | N     | P     | Q    | wt    |
| --    | --    | .125  | 1.688 | 2.18  | .750  | .06  | grams |
| --    | --    | 3.18  | 42.88 | 55.37 | 19.05 | 1.52 | 70.0  |

Note: Please refer to case style drawing for details

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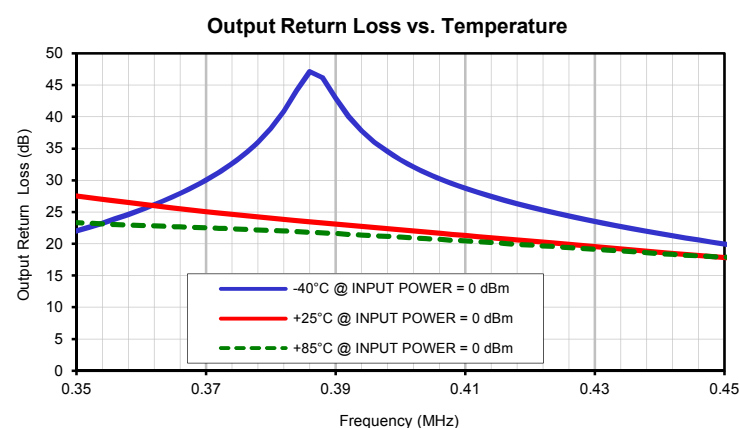
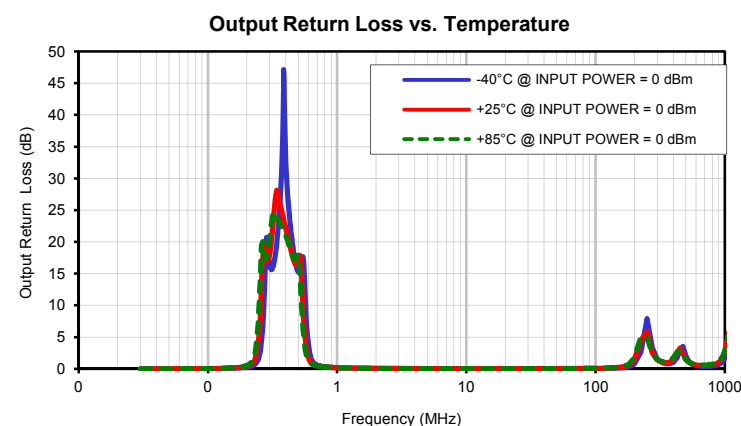
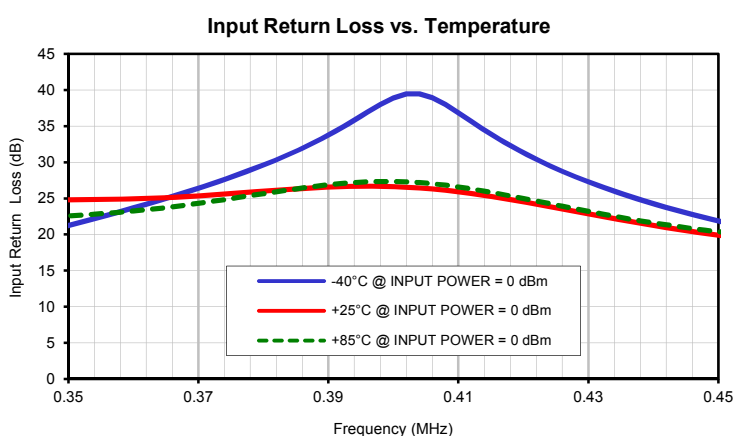
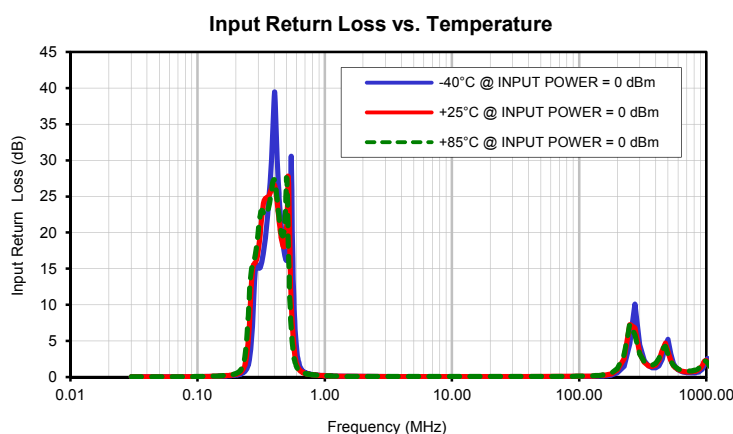
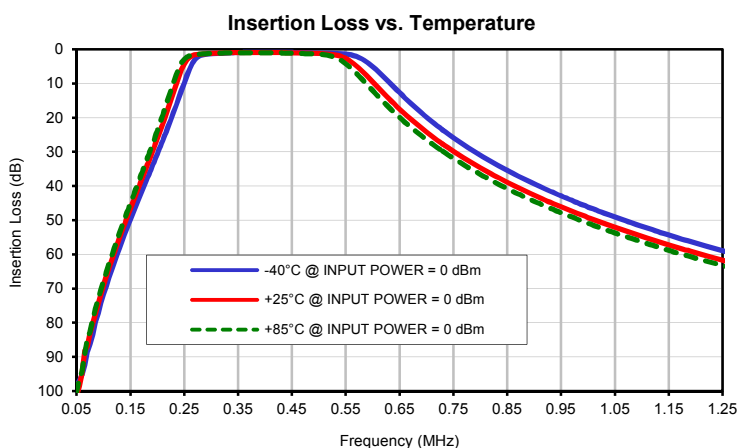
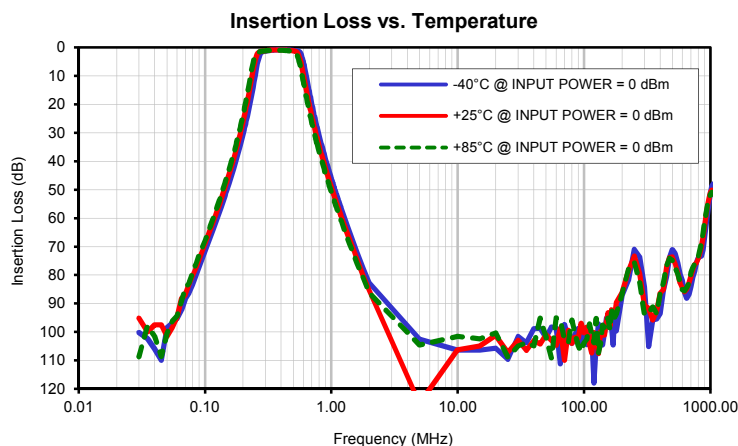
## Typical Performance Data

| FREQ.<br><br>(MHz) | INSERTION LOSS |        |        | INPUT RETURN LOSS |        |        | OUTPUT RETURN LOSS |        |        |
|--------------------|----------------|--------|--------|-------------------|--------|--------|--------------------|--------|--------|
|                    | (dB)           |        |        | (dB)              |        |        | (dB)               |        |        |
|                    | @-40°C         | @+25°C | @+85°C | @-40°C            | @+25°C | @+85°C | @-40°C             | @+25°C | @+85°C |
| 0.100              | 71.67          | 69.09  | 67.82  | 0.04              | 0.05   | 0.05   | 0.03               | 0.05   | 0.05   |
| 0.110              | 66.89          | 64.12  | 62.86  | 0.04              | 0.06   | 0.06   | 0.04               | 0.06   | 0.06   |
| 0.120              | 62.27          | 59.50  | 58.19  | 0.05              | 0.07   | 0.08   | 0.05               | 0.07   | 0.07   |
| 0.130              | 57.96          | 55.09  | 53.67  | 0.06              | 0.09   | 0.09   | 0.06               | 0.09   | 0.09   |
| 0.140              | 53.85          | 50.82  | 49.33  | 0.08              | 0.11   | 0.12   | 0.07               | 0.10   | 0.12   |
| 0.144              | 52.26          | 49.15  | 47.64  | 0.09              | 0.11   | 0.13   | 0.08               | 0.11   | 0.12   |
| 0.148              | 50.65          | 47.52  | 45.91  | 0.09              | 0.12   | 0.13   | 0.08               | 0.12   | 0.14   |
| 0.150              | 49.83          | 46.68  | 45.09  | 0.09              | 0.13   | 0.14   | 0.09               | 0.13   | 0.14   |
| 0.154              | 48.28          | 45.03  | 43.40  | 0.10              | 0.14   | 0.16   | 0.10               | 0.14   | 0.16   |
| 0.158              | 46.71          | 43.40  | 41.71  | 0.11              | 0.15   | 0.17   | 0.10               | 0.15   | 0.17   |
| 0.160              | 45.94          | 42.58  | 40.88  | 0.11              | 0.15   | 0.18   | 0.11               | 0.15   | 0.18   |
| 0.164              | 44.39          | 40.96  | 39.20  | 0.12              | 0.17   | 0.19   | 0.12               | 0.17   | 0.20   |
| 0.168              | 42.85          | 39.34  | 37.53  | 0.13              | 0.18   | 0.21   | 0.13               | 0.18   | 0.21   |
| 0.170              | 42.09          | 38.53  | 36.69  | 0.14              | 0.19   | 0.22   | 0.13               | 0.19   | 0.23   |
| 0.174              | 40.56          | 36.90  | 35.02  | 0.14              | 0.21   | 0.24   | 0.15               | 0.21   | 0.25   |
| 0.178              | 39.04          | 35.28  | 33.33  | 0.16              | 0.22   | 0.26   | 0.16               | 0.23   | 0.28   |
| 0.180              | 38.27          | 34.46  | 32.48  | 0.16              | 0.23   | 0.27   | 0.17               | 0.24   | 0.29   |
| 0.200              | 30.62          | 26.15  | 23.79  | 0.25              | 0.37   | 0.47   | 0.26               | 0.40   | 0.51   |
| 0.225              | 20.63          | 15.00  | 12.07  | 0.49              | 0.90   | 1.35   | 0.56               | 1.04   | 1.61   |
| 0.240              | 14.21          | 8.08   | 5.51   | 0.90              | 2.26   | 4.00   | 1.09               | 2.71   | 4.89   |
| 0.255              | 7.66           | 3.10   | 2.27   | 2.31              | 7.26   | 11.17  | 2.91               | 8.99   | 15.31  |
| 0.275              | 2.24           | 1.48   | 1.49   | 10.02             | 15.54  | 15.85  | 13.17              | 18.96  | 17.64  |
| 0.280              | 1.80           | 1.39   | 1.41   | 12.83             | 15.71  | 16.30  | 17.79              | 17.71  | 17.35  |
| 0.300              | 1.30           | 1.17   | 1.19   | 15.17             | 17.52  | 20.18  | 16.44              | 17.91  | 20.33  |
| 0.340              | 0.99           | 0.94   | 1.02   | 19.14             | 24.71  | 22.45  | 19.45              | 27.98  | 23.90  |
| 0.350              | 0.93           | 0.91   | 1.00   | 21.24             | 24.79  | 22.59  | 22.01              | 27.54  | 23.33  |
| 0.360              | 0.89           | 0.90   | 0.99   | 23.68             | 24.93  | 23.24  | 25.37              | 26.26  | 22.89  |
| 0.370              | 0.86           | 0.89   | 0.99   | 26.40             | 25.35  | 24.31  | 30.03              | 25.07  | 22.51  |
| 0.376              | 0.85           | 0.89   | 0.99   | 28.24             | 25.72  | 25.09  | 34.15              | 24.44  | 22.27  |
| 0.380              | 0.84           | 0.89   | 0.99   | 29.60             | 25.99  | 25.63  | 38.15              | 24.04  | 22.09  |
| 0.390              | 0.83           | 0.89   | 1.00   | 33.76             | 26.56  | 26.87  | 42.97              | 23.10  | 21.60  |
| 0.400              | 0.82           | 0.89   | 1.00   | 38.91             | 26.63  | 27.35  | 33.23              | 22.20  | 21.04  |
| 0.406              | 0.82           | 0.90   | 1.01   | 38.96             | 26.30  | 27.03  | 30.26              | 21.67  | 20.69  |
| 0.410              | 0.83           | 0.91   | 1.02   | 36.85             | 25.91  | 26.59  | 28.75              | 21.31  | 20.44  |
| 0.416              | 0.82           | 0.92   | 1.03   | 33.36             | 25.13  | 25.68  | 26.87              | 20.78  | 20.06  |
| 0.420              | 0.83           | 0.92   | 1.04   | 31.32             | 24.52  | 24.98  | 25.80              | 20.43  | 19.80  |
| 0.426              | 0.84           | 0.94   | 1.06   | 28.76             | 23.53  | 23.90  | 24.37              | 19.89  | 19.40  |
| 0.430              | 0.84           | 0.95   | 1.07   | 27.30             | 22.86  | 23.19  | 23.51              | 19.54  | 19.14  |
| 0.436              | 0.85           | 0.96   | 1.09   | 25.39             | 21.88  | 22.20  | 22.34              | 19.01  | 18.73  |
| 0.440              | 0.86           | 0.98   | 1.11   | 24.27             | 21.26  | 21.60  | 21.60              | 18.66  | 18.46  |
| 0.446              | 0.87           | 1.00   | 1.13   | 22.76             | 20.40  | 20.82  | 20.59              | 18.16  | 18.09  |
| 0.450              | 0.88           | 1.01   | 1.15   | 21.87             | 19.88  | 20.39  | 19.96              | 17.84  | 17.87  |
| 0.525              | 1.17           | 1.48   | 2.07   | 18.36             | 22.16  | 13.46  | 16.12              | 16.12  | 11.57  |
| 0.560              | 1.63           | 3.62   | 5.52   | 16.41             | 6.14   | 4.04   | 13.57              | 5.70   | 3.77   |
| 0.580              | 2.81           | 6.30   | 8.69   | 7.84              | 3.17   | 2.24   | 7.24               | 2.97   | 2.11   |
| 0.585              | 3.28           | 7.07   | 9.53   | 6.58              | 2.73   | 1.97   | 6.12               | 2.56   | 1.86   |
| 0.600              | 5.04           | 9.52   | 12.07  | 3.98              | 1.82   | 1.41   | 3.73               | 1.72   | 1.35   |
| 0.625              | 8.74           | 13.61  | 16.15  | 1.92              | 1.08   | 0.93   | 1.80               | 1.03   | 0.91   |
| 0.650              | 12.66          | 17.46  | 19.91  | 1.12              | 0.76   | 0.70   | 1.05               | 0.74   | 0.69   |
| 0.800              | 30.98          | 34.67  | 36.60  | 0.32              | 0.29   | 0.30   | 0.31               | 0.30   | 0.31   |
| 1.000              | 46.12          | 49.21  | 50.89  | 0.18              | 0.16   | 0.17   | 0.18               | 0.17   | 0.18   |
| 1.200              | 56.74          | 59.55  | 61.11  | 0.12              | 0.11   | 0.12   | 0.12               | 0.12   | 0.13   |
| 1.600              | 71.94          | 74.41  | 75.93  | 0.08              | 0.07   | 0.07   | 0.08               | 0.08   | 0.08   |
| 2.000              | 82.79          | 85.49  | 86.25  | 0.06              | 0.05   | 0.05   | 0.06               | 0.06   | 0.06   |
| 10.000             | 106.36         | 106.22 | 101.48 | 0.04              | 0.05   | 0.06   | 0.03               | 0.05   | 0.06   |
| 50.000             | 102.01         | 100.98 | 101.62 | 0.04              | 0.05   | 0.05   | 0.04               | 0.05   | 0.05   |
| 100.000            | 100.24         | 100.24 | 103.74 | 0.05              | 0.08   | 0.09   | 0.04               | 0.08   | 0.09   |
| 150.000            | 95.13          | 96.21  | 95.47  | 0.12              | 0.20   | 0.25   | 0.12               | 0.22   | 0.27   |
| 200.000            | 87.26          | 86.18  | 86.58  | 0.55              | 0.94   | 1.15   | 0.76               | 1.35   | 1.72   |
| 400.000            | 93.50          | 86.34  | 86.48  | 1.26              | 1.62   | 1.87   | 1.02               | 1.51   | 1.73   |
| 600.000            | 81.99          | 84.53  | 85.08  | 0.98              | 1.00   | 1.09   | 0.50               | 0.59   | 0.67   |
| 800.000            | 73.99          | 74.23  | 73.47  | 0.57              | 0.76   | 0.89   | 0.43               | 0.64   | 0.74   |
| 1000.000           | 51.18          | 50.98  | 51.63  | 2.34              | 2.28   | 2.16   | 1.66               | 2.71   | 2.92   |

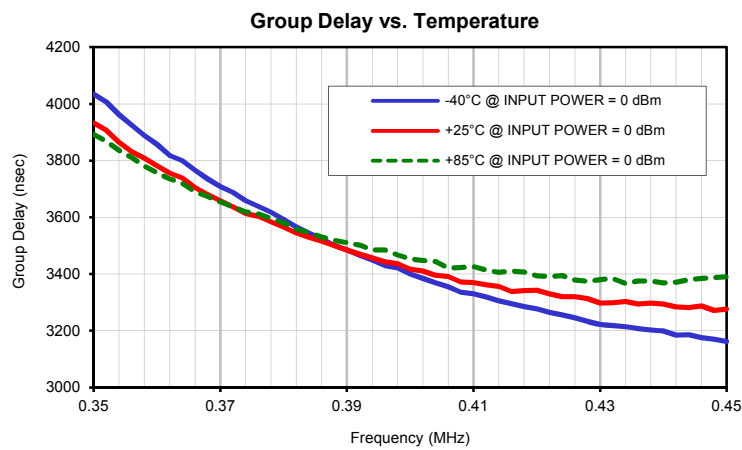
## Typical Performance Data

| FREQ.  | GROUP DELAY |         |         |
|--------|-------------|---------|---------|
| (MHz)  | (ns)        |         |         |
|        | @-40°C      | @+25°C  | @+85°C  |
| 0.3500 | 4034.26     | 3932.98 | 3892.00 |
| 0.3520 | 4006.08     | 3906.90 | 3867.32 |
| 0.3540 | 3962.31     | 3865.45 | 3836.35 |
| 0.3560 | 3924.83     | 3831.69 | 3811.55 |
| 0.3580 | 3888.51     | 3808.99 | 3781.05 |
| 0.3600 | 3857.31     | 3781.87 | 3757.07 |
| 0.3620 | 3817.96     | 3756.26 | 3735.30 |
| 0.3640 | 3799.33     | 3738.79 | 3720.05 |
| 0.3660 | 3765.45     | 3705.15 | 3690.25 |
| 0.3680 | 3735.65     | 3679.66 | 3672.79 |
| 0.3700 | 3708.64     | 3659.05 | 3654.39 |
| 0.3720 | 3688.39     | 3637.28 | 3636.93 |
| 0.3740 | 3658.24     | 3613.65 | 3619.70 |
| 0.3760 | 3638.79     | 3602.94 | 3612.14 |
| 0.3780 | 3618.19     | 3584.66 | 3595.72 |
| 0.3800 | 3592.58     | 3564.75 | 3580.47 |
| 0.3820 | 3565.92     | 3544.61 | 3557.89 |
| 0.3840 | 3544.15     | 3530.06 | 3545.31 |
| 0.3860 | 3524.71     | 3515.98 | 3530.41 |
| 0.3880 | 3500.26     | 3499.91 | 3519.00 |
| 0.3900 | 3484.66     | 3484.66 | 3510.62 |
| 0.3920 | 3465.57     | 3469.88 | 3501.89 |
| 0.3940 | 3449.15     | 3456.14 | 3484.66 |
| 0.3960 | 3429.36     | 3443.10 | 3485.01 |
| 0.3980 | 3422.15     | 3435.88 | 3467.08 |
| 0.4000 | 3400.03     | 3416.79 | 3453.34 |
| 0.4020 | 3383.96     | 3410.27 | 3447.29 |
| 0.4040 | 3368.71     | 3396.18 | 3444.26 |
| 0.4060 | 3354.62     | 3391.64 | 3420.98 |
| 0.4080 | 3336.23     | 3371.74 | 3423.31 |
| 0.4100 | 3329.83     | 3369.87 | 3425.99 |
| 0.4120 | 3319.47     | 3361.84 | 3413.76 |
| 0.4140 | 3305.38     | 3355.79 | 3405.73 |
| 0.4160 | 3295.14     | 3337.86 | 3409.92 |
| 0.4180 | 3285.12     | 3342.05 | 3407.24 |
| 0.4200 | 3277.56     | 3342.40 | 3393.86 |
| 0.4220 | 3264.52     | 3329.83 | 3390.83 |
| 0.4240 | 3256.14     | 3319.93 | 3394.67 |
| 0.4260 | 3245.54     | 3320.63 | 3379.07 |
| 0.4280 | 3232.85     | 3313.06 | 3373.72 |
| 0.4300 | 3221.79     | 3297.35 | 3379.42 |
| 0.4320 | 3218.77     | 3298.98 | 3384.78 |
| 0.4340 | 3214.58     | 3302.70 | 3366.38 |
| 0.4360 | 3207.36     | 3293.62 | 3375.93 |
| 0.4380 | 3203.17     | 3297.35 | 3375.58 |
| 0.4400 | 3199.33     | 3294.32 | 3369.06 |
| 0.4420 | 3184.43     | 3284.43 | 3371.04 |
| 0.4440 | 3185.59     | 3282.10 | 3380.12 |
| 0.4460 | 3175.34     | 3287.10 | 3384.78 |
| 0.4480 | 3169.99     | 3271.50 | 3387.45 |
| 0.4500 | 3161.61     | 3275.69 | 3390.48 |

## Typical Performance Curves



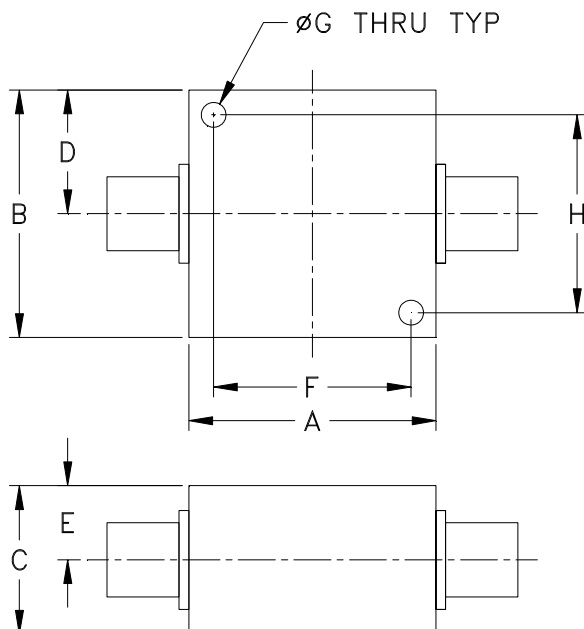
Typical Performance Curves



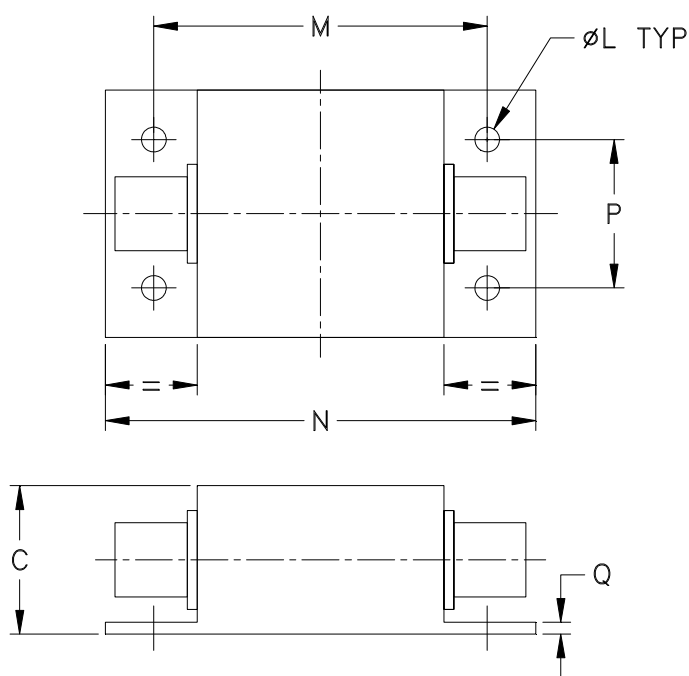
## Outline Dimensions

H16

STANDARD



OPTION "B"



| CASE# | A               | B               | C               | D              | E             | F                | G              | H                | J  | K  | L              | M                | N               |
|-------|-----------------|-----------------|-----------------|----------------|---------------|------------------|----------------|------------------|----|----|----------------|------------------|-----------------|
| H16   | 1.25<br>(31.75) | 1.25<br>(31.75) | .750<br>(19.05) | .63<br>(16.00) | .38<br>(9.65) | 1.000<br>(25.40) | .125<br>(3.18) | 1.000<br>(25.40) | -- | -- | .125<br>(3.18) | 1.688<br>(42.88) | 2.18<br>(55.37) |

| CASE# | P               | Q             | WT.GRAMS |
|-------|-----------------|---------------|----------|
| H16   | .750<br>(19.05) | .06<br>(1.52) | 70       |

Dimensions are in inches (mm). Tolerances: 2PL.  $\pm .03$ ; 3PL.  $\pm .015$

### Notes:

1. Case material: Aluminum alloy.
2. Case finish:  
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
3. Mounting bracket available on request. Add suffix B to part number.
4. Bracket version, option B, dimension "C" changes from .75 to .94 inches when connectors are type N.
5. Refer to the individual model data sheet for the type of connectors available.



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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

| Specification              | Test/Inspection Condition                                                              | Reference/Spec                       |
|----------------------------|----------------------------------------------------------------------------------------|--------------------------------------|
| Operating Temperature      | -40° to 85°C                                                                           | Individual Model Data Sheet          |
| Storage Temperature        | -55° to 100° C<br>Ambient Environment                                                  | Individual Model Data Sheet          |
| Barometric Pressure        | 100,000 Feet                                                                           | MIL-STD-202, Method 105, Condition D |
| Humidity                   | 90% RH, 65°C<br>Units may require bake-out after humidity to restore full performance. | MIL-STD-202, Method 103              |
| Thermal Shock              | -65° to 125°C, 5 cycles                                                                | MIL-STD-202, Method 107, Condition B |
| Vibration (High Frequency) | 20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)    | MIL-STD-202, Method 204, Condition D |
| Mechanical Shock           | 100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)                          | MIL-STD-202, Method 213, Condition I |