

## High Pass Filter Coaxial

## ZX75HP-EDU2570+

### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

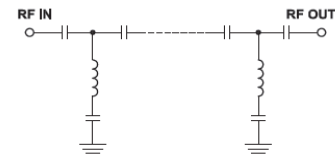
**CASE STYLE : HY1239**

### ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

| Parameter                   | Min. | Typ. | Max. | Units |
|-----------------------------|------|------|------|-------|
| Passband<br>(Loss < 1.5 dB) | 700  | -    | 5800 | MHz   |
| Insertion loss 3 dB         | -    | 648  | -    | MHz   |
| Stopband (Loss > 30 dB)     | 1    | -    | 600  | MHz   |
| Passband VSWR               | -    | 1.92 | -    | (:1)  |
| Stopband VSWR               | -    | 20   | -    | (:1)  |

### Functional Schematic

| MAXIMUM RATINGS       |                |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C  |
| Storage Temperature   | -55°C to 100°C |
| RF Power Input        | 1W             |



| PIN CONNECTIONS |            |
|-----------------|------------|
| Input           | SMA FEMALE |
| Output          | SMA FEMALE |

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

# High Pass Filter

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### Typical Performance Data

Connected

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | RETURN<br>LOSS<br>(dB) | FREQUENCY<br>(MHz) | GROUP<br>DELAY<br>(nsec) |
|--------------------|---------------------------|------------------------|--------------------|--------------------------|
| 1                  | 81.09                     | 0.00                   | 700                | 3.38                     |
| 30                 | 48.61                     | 0.00                   | 900                | 0.92                     |
| 50                 | 44.27                     | 0.00                   | 1100               | 0.54                     |
| 150                | 36.06                     | 0.01                   | 1300               | 0.40                     |
| 250                | 35.03                     | 0.03                   | 1500               | 0.32                     |
| 350                | 41.69                     | 0.06                   | 1700               | 0.28                     |
| 500                | 38.16                     | 0.18                   | 1900               | 0.25                     |
| 600                | 48.98                     | 0.64                   | 2100               | 0.23                     |
| 612                | 29.35                     | 0.84                   | 2300               | 0.22                     |
| 620                | 21.33                     | 1.09                   | 2500               | 0.22                     |
| 622                | 19.60                     | 1.18                   | 2700               | 0.20                     |
| 630                | 13.32                     | 1.75                   | 2900               | 0.19                     |
| 650                | 2.93                      | 8.67                   | 3100               | 0.18                     |
| 700                | 0.63                      | 22.98                  | 3300               | 0.19                     |
| 1000               | 0.23                      | 20.97                  | 3500               | 0.18                     |
| 2500               | 0.25                      | 17.18                  | 3700               | 0.18                     |
| 3000               | 0.34                      | 15.18                  | 3900               | 0.18                     |
| 3500               | 0.38                      | 15.25                  | 4100               | 0.18                     |
| 4000               | 0.35                      | 17.63                  | 4300               | 0.19                     |
| 4500               | 0.31                      | 24.33                  | 4500               | 0.18                     |
| 5000               | 0.31                      | 30.76                  | 5000               | 0.17                     |
| 5800               | 0.39                      | 48.33                  | 5300               | 0.20                     |
| 6000               | 0.50                      | 26.87                  | 5500               | 0.18                     |
| 6500               | 0.59                      | 16.75                  | 5800               | 0.19                     |



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

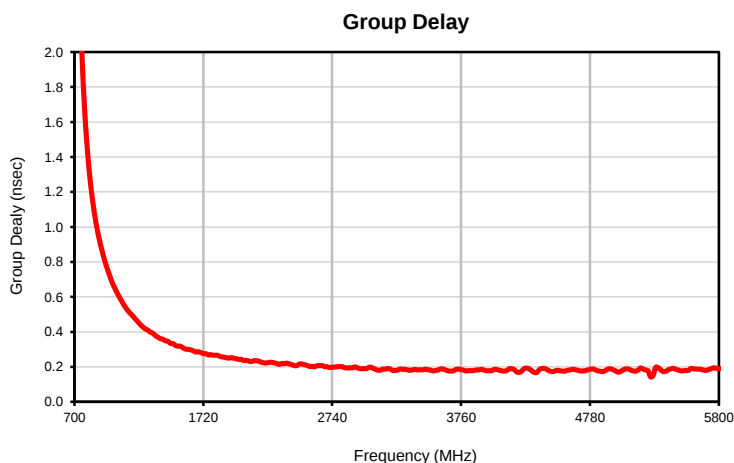
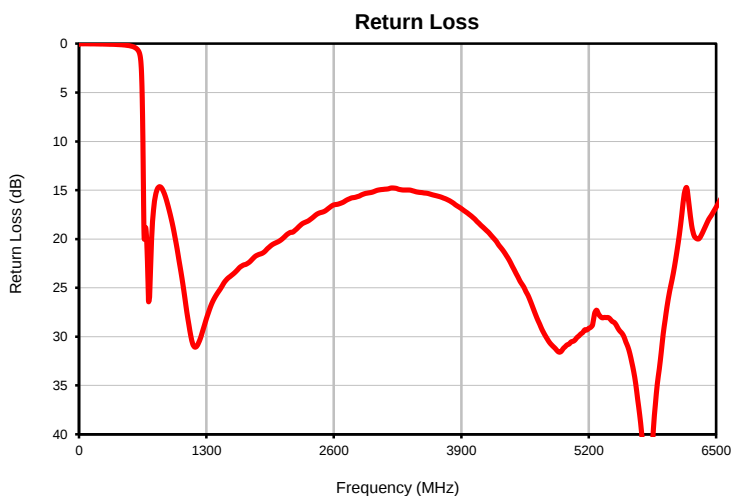
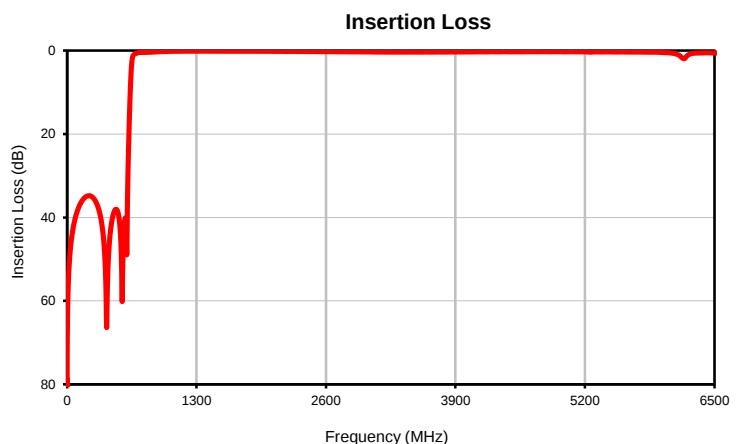
IF/RF MICROWAVE COMPONENTS

REV. OR  
ZX75HP-EDU2570+  
URJ  
170619  
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# High Pass Filter

ZX75HP-EDU2570+

## Typical Performance Curves

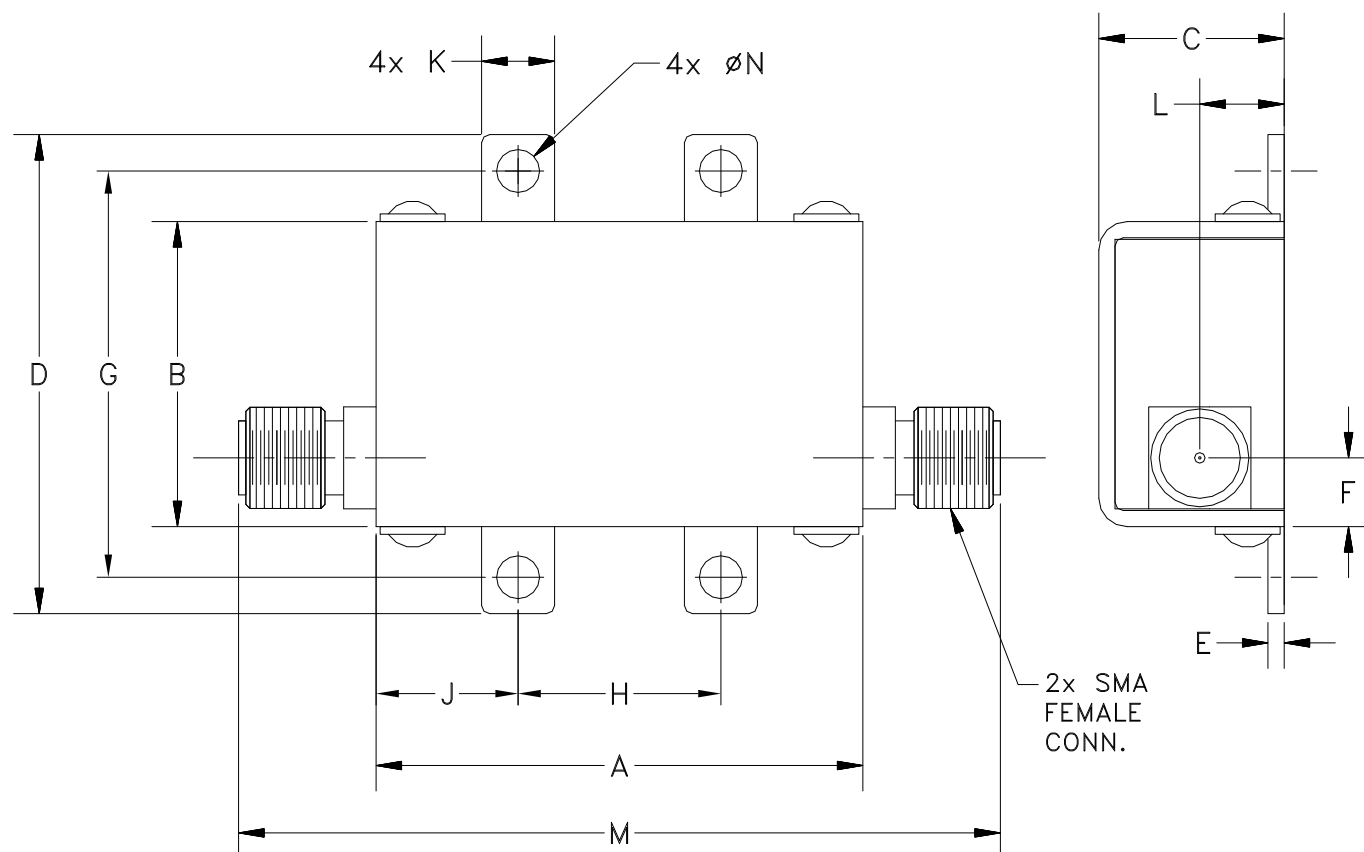


# Case Style

# HY

## Outline Dimensions

## HY1239



| CASE #. | A               | B              | C              | D               | E             | F             | G               | H              | J             | K             | L             | M               | N              | WT<br>GRAMS |
|---------|-----------------|----------------|----------------|-----------------|---------------|---------------|-----------------|----------------|---------------|---------------|---------------|-----------------|----------------|-------------|
| HY1239  | 1.20<br>(30.48) | .75<br>(19.05) | .46<br>(11.68) | 1.18<br>(29.97) | .04<br>(1.02) | .17<br>(4.32) | 1.00<br>(25.40) | .50<br>(12.70) | .35<br>(8.89) | .18<br>(4.57) | .21<br>(5.28) | 1.88<br>(47.75) | .106<br>(2.69) | 35.0        |

Dimensions are in inches (mm). Tolerances: 2Pl.  $\pm .03$ ; 3Pl.  $\pm .015$   
Tolerance on hole size and interaxes dimensions to be  $\pm .005$ .

### Note:

1. Case material: Brass
2. Case finish: Nickel plate



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