

## Engineering Development Model

### High Pass Filter\_DC Coupled Connected

THP-EDU1064

#### 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.

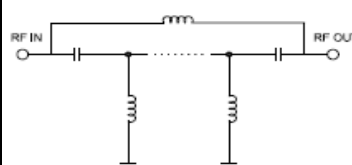


CASE STYLE: 99-01-298

| Electrical Specifications 50Ω @ +25°C |     |      |     |       |
|---------------------------------------|-----|------|-----|-------|
| Parameter                             | Min | Typ  | Max | Units |
| Passband 1 High (Loss < 1.5 dB)       | 400 | -    | 900 | MHz   |
| Passband 2 Low (Loss < 0.5 dB)        | DC  | -    | 1   | MHz   |
| Stopband (Loss > 20 dB)               | 5   | -    | 20  | MHz   |
| Stopband (Loss > 40 dB)               | 20  | -    | 210 | MHz   |
| Stopband (Loss > 20 dB)               | 210 | -    | 280 | MHz   |
| Passband 1 High VSWR                  |     | 2    |     | :1    |
| Passband 2 Low VSWR                   |     | 1.45 |     | :1    |

#### Functional Schematic

| MAXIMUM RATINGS       |                |
|-----------------------|----------------|
| Operating Temperature | -40°C to +60°C |
| Storage Temperature   | -55°C to +85°C |
| RF Power Input        | 0.5 W          |
| DC Current            | 300 mA         |
| DC Voltage            | 12 V           |



| PIN CONNECTIONS |           |
|-----------------|-----------|
| Input           | # 1(TNCM) |
| Output          | # 2(TNCF) |

## Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | RETURN<br>LOSS<br>(dB) | FREQUENCY<br>(MHz) | GROUP<br>DELAY<br>(nsec) |
|--------------------|---------------------------|------------------------|--------------------|--------------------------|
| 0.5                | 0.07                      | 27.07                  | 400                | 4.76                     |
| 1                  | 0.10                      | 28.42                  | 410                | 4.22                     |
| 5                  | 26.48                     | 0.27                   | 420                | 3.78                     |
| 20                 | 62.50                     | 0.23                   | 450                | 2.98                     |
| 50                 | 82.97                     | 0.18                   | 460                | 2.81                     |
| 200                | 52.90                     | 0.22                   | 480                | 2.50                     |
| 210                | 49.49                     | 0.24                   | 500                | 2.29                     |
| 290                | 24.12                     | 0.49                   | 520                | 2.07                     |
| 300                | 21.04                     | 0.58                   | 540                | 1.88                     |
| 350                | 6.34                      | 2.68                   | 560                | 1.76                     |
| 375                | 2.14                      | 8.78                   | 580                | 1.67                     |
| 400                | 1.06                      | 21.36                  | 600                | 1.58                     |
| 450                | 0.75                      | 29.23                  | 620                | 1.46                     |
| 500                | 0.70                      | 20.03                  | 640                | 1.38                     |
| 560                | 0.72                      | 15.26                  | 660                | 1.34                     |
| 600                | 0.69                      | 14.69                  | 700                | 1.25                     |
| 660                | 0.66                      | 15.61                  | 720                | 1.18                     |
| 700                | 0.58                      | 17.22                  | 740                | 1.15                     |
| 760                | 0.52                      | 21.50                  | 760                | 1.14                     |
| 800                | 0.50                      | 27.10                  | 800                | 1.07                     |
| 900                | 0.53                      | 24.25                  | 850                | 1.00                     |
| 950                | 0.61                      | 19.11                  | 900                | 0.94                     |
| 1000               | 0.66                      | 15.99                  | 950                | 0.90                     |
| 2000               | 2.60                      | 7.89                   | 1000               | 0.86                     |

## Typical Performance Curves

