

## Band Pass Filter

## BPF-EDU2052

### Surface Mount

#### 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.



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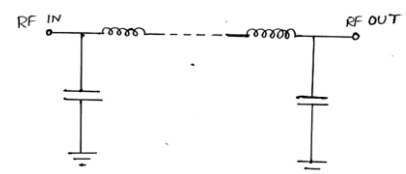
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#### ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

| Parameter                 | Min. | Typ. | Max. | Units |
|---------------------------|------|------|------|-------|
| Passband<br>(Loss < 3 dB) | 3300 |      | 4000 | MHz   |
| Centre frequency          |      | 3650 |      | MHz   |
| Low Band (Loss > 20 dB)   | DC   | 2700 |      | MHz   |
| High Band (Loss > 20 dB)  |      | 4900 | 6000 | MHz   |
| Passband VSWR             |      | 1.7  |      | (: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        | 3.5 W          |



#### PIN CONNECTIONS

|        |          |
|--------|----------|
| Input  | 1        |
| Output | 8        |
| Ground | 2-7,9-14 |

## Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | RETURN<br>LOSS<br>(dB) | FREQUENCY<br>(MHz) | GROUP<br>DELAY<br>(nsec) |
|--------------------|---------------------------|------------------------|--------------------|--------------------------|
| 10.0               | 74.08                     | 0.04                   | 3300               | 1.56                     |
| 100.0              | 84.97                     | 0.04                   | 3350               | 1.44                     |
| 300.0              | 81.19                     | 0.05                   | 3375               | 1.41                     |
| 550.0              | 74.50                     | 0.08                   | 3400               | 1.38                     |
| 750.0              | 73.16                     | 0.11                   | 3450               | 1.34                     |
| 1200.0             | 71.18                     | 0.12                   | 3475               | 1.32                     |
| 1450.0             | 71.45                     | 0.09                   | 3500               | 1.30                     |
| 2000.0             | 59.35                     | 0.01                   | 3525               | 1.28                     |
| 2716.0             | 32.86                     | 0.20                   | 3550               | 1.27                     |
| 2760.0             | 30.44                     | 0.26                   | 3575               | 1.27                     |
| 2910.0             | 20.90                     | 0.60                   | 3600               | 1.27                     |
| 3140.0             | 3.93                      | 5.43                   | 3625               | 1.27                     |
| 3170.0             | 2.47                      | 8.69                   | 3650               | 1.28                     |
| 3300.0             | 1.06                      | 23.12                  | 3675               | 1.29                     |
| 3650.0             | 1.19                      | 18.24                  | 3700               | 1.30                     |
| 4000.0             | 1.49                      | 28.59                  | 3725               | 1.31                     |
| 4100.0             | 2.57                      | 9.01                   | 3750               | 1.32                     |
| 4130.0             | 3.39                      | 6.43                   | 3775               | 1.34                     |
| 4330.0             | 20.40                     | 1.09                   | 3800               | 1.36                     |
| 4770.0             | 30.07                     | 1.53                   | 3825               | 1.39                     |
| 5000.0             | 33.63                     | 1.69                   | 3850               | 1.42                     |
| 5024.0             | 34.02                     | 1.69                   | 3875               | 1.46                     |
| 5724.0             | 44.51                     | 1.32                   | 3950               | 1.63                     |
| 6000.0             | 50.85                     | 0.98                   | 4000               | 1.77                     |

## Typical Performance Curves

