

# FILTERS

## BANDPASS

### 24 PIN - THROUGH HOLE MOUNT

#### HIGH SUPPRESSION



| Fc (MHz) | LOSS (dB) | 1 dB RIPPLE BW (MHz) | 20 dB BW (MHz) | 40 dB BW (MHz) (50dB on low end) | PACKAGE | PIN-OUT (See Below) | MODEL   |
|----------|-----------|----------------------|----------------|----------------------------------|---------|---------------------|---------|
| 10.7     | 3.5       | 0.3                  | 9.63-11.8      | 8.5-12.85                        | 124     | 1                   | FBP-11  |
| 21.4     | 3.5       | 1.0                  | 19.26-23.6     | 17-25.70                         | 124     | 1                   | FBP-21  |
| 30.0     | 3.5       | 1.5                  | 27-33          | 24-36                            | 124     | 1                   | FBP-30  |
| 45.0     | 3.5       | 2.2                  | 40-50          | 35-56                            | 124     | 1                   | FBP-45  |
| 50.0     | 4.0       | 2.5                  | 45-56          | 40-62                            | 124     | 1                   | FBP-50  |
| 60.0     | 4.0       | 3.0                  | 54-67          | 48-74                            | 124     | 1                   | FBP-60  |
| 70.0     | 4.6       | 3.5                  | 63-77          | 56-86                            | 124     | 1                   | FBP-70  |
| 140      | 5.0       | 8.0                  | 125-160        | 110-175                          | 124     | 1                   | FBP-140 |
| 200      | 6.0       | 12.0                 | 180-230        | 155-250                          | 124     | 1                   | FBP-200 |

**NOTE:** All units meet or exceed applicable MIL-F-18327.  
For other frequencies, please contact Synergy directly.

### LEADLESS SURFACE-MOUNT MODELS

#### HIGH SUPPRESSION



| Fc (MHz) | LOSS (dB) | 1 dB RIPPLE BW (MHz) | 20 dB BW (MHz) | 40 dB BW (MHz) (50dB on low end) | PACKAGE | PIN-OUT (See Below) | MODEL   |
|----------|-----------|----------------------|----------------|----------------------------------|---------|---------------------|---------|
| 10.7     | 3.5       | 0.3                  | 9.63-11.8      | 8.5-12.85                        | 124S    | 1                   | FBS-11  |
| 21.4     | 3.5       | 1.0                  | 19.26-23.6     | 17-25.70                         | 124S    | 1                   | FBS-21  |
| 30.0     | 3.5       | 1.5                  | 27-33          | 24-36                            | 124S    | 1                   | FBS-30  |
| 45.0     | 3.5       | 2.2                  | 40-50          | 35-56                            | 124S    | 1                   | FBS-45  |
| 50.0     | 4.0       | 2.5                  | 45-56          | 40-62                            | 124S    | 1                   | FBS-50  |
| 60.0     | 4.0       | 3.0                  | 54-67          | 48-74                            | 124S    | 1                   | FBS-60  |
| 70.0     | 4.6       | 3.5                  | 63-77          | 56-86                            | 124S    | 1                   | FBS-70  |
| 140      | 5.0       | 8.0                  | 125-160        | 110-175                          | 124S    | 1                   | FBS-140 |
| 200      | 6.0       | 12.0                 | 180-230        | 155-250                          | 124S    | 1                   | FBS-200 |

**NOTE:** All units meet or exceed applicable MIL-F-18327.  
For other frequencies and impedances please contact us.  
Impedance is 50 Ohms for all models.

For pin location and package outline drawings, see back pages.

PIN-OUT TABLE

| INPUT | OUTPUT | CASE GROUND |
|-------|--------|-------------|
| 1     | 16     | All Other   |