



# FSD 800 & 2000 FST800 & 2000

## FM Starpoint Diplexers & Triplexers Diplexores y Triplexores de FM Punto Estrella



These combiners for two or three transmitters were conceived to couple two or three transmitting frequencies on one antenna. Besides the power restriction due to the type of cavity that is used, the diplexers and triplexers are also limited by the frequency range. The distance between the various frequencies must be greater than 3 MHz. The triplexers must be factory tuned.

Estos combinadores para dos o tres transmisores fueron concebidos para acoplar dos o tres frecuencias en una antena. Además de la restricción de potencia debido al tipo de cavidad usada, los diplexores y triplexores son también limitados da el alcance de potencia. La distancia entre las varias frecuencias debe ser más de 3 MHz. Los triplexores deben ser sintonizados en la fábrica.

### TECHNICAL SPECIFICATIONS

|                                | Double Bridge Diplexers FDB 800 & 2000  | Starpoint Diplexers FSD800 & 2000 / Triplexers FST800 & 2000   |
|--------------------------------|---|--|
| <b>Model</b>                   | Double Bridge Diplexers FDB 800 & 2000  | Starpoint Diplexers FSD800 & 2000 / Triplexers FST800 & 2000   |
| <b>Frequency range</b>         | 87.5 - 108 MHz  | 87.5 - 108 MHz   |
| <b>Typical insertion loss</b>  | 0.7 dB narrow band (FDB 800)<br>0.3 dB broad band (FDB 800)<br>0.5 dB narrow band (FDB 2000)<br>0.3 dB broad band (FDB 2000)          | 0.7 dB (FSD800)<br>0.7 dB (FST800)<br>0.5 dB (FSD2000)<br>0.5 dB (FST2000)   |
| <b>Min. freq. spacing</b>      | 2 MHz   | 3 MHz  |
| <b>Impedance</b>               | 50 Ohms   | 50 Ohms  |
| <b>Connectors</b>              | FDB 800 input N type<br>output LC 7/16 or EIA 7/8<br>FDB 2000 input LC or 7/16<br>output EIA 7/8 or EIA 1 <sup>5</sup> / <sub>8</sub> | FSD & FST 800 input N type<br>output LC - 7/16 or EIA 7/8<br>FSD & FST 2000 input LC or 7/16<br>output EIA 7/8 or EIA 1 <sup>5</sup> / <sub>8</sub>              |
| <b>Power rating</b>            | FDB 800 both bands 1500 W max.<br>FDB 2000 both bands 3000 W max.   | FSD & FST 800: 800 W each channel max<br>FSD & FST 2000: 2000 W each channel max   |
| <b>VSWR</b>                    | 1.1:1 typical   | 1.1:1 typical  |
| <b>Isolation btwn channels</b> | 25 - 50 dB (dep. on dist. btwn channels)  |  |
| <b>Materials</b>               | ext.: aluminum – int.: silver plated copper   | ext.: aluminum – int.: silver plated copper  |
| <b>Color</b>                   | black   | black  |
| <b>Weight</b>                  | 44 Lbs (20 kg) FDB 800<br>1.62 Lbs (28 kg) FDB 2000   | 24.2 Lbs (11 kg.) FBP800<br>34 Lbs (16 kg) FBP2000   |
| <b>Temperature range</b>       | 20° to 120° F (-8° to 50° C)  | 20° to 120° F (-8° to 50° C)   |
| <b>Dimensions</b>              | FDB800:44"×15"×16" (1100×380×400 mm)<br>FDB2000:56"×36"×24" (1400×900×600 mm)   | FSD800: 44"×8"×16" (1100×200×400 mm)<br>FSD2000: 56"×26"×18" (1400×650×450 mm)<br>FST800: 43"×8"×24" (1100×200×600 mm)<br>FST2000: 56"×26"×28" (1400×650×700 mm) |
| <b>Packing</b>                 | FDB800:52"×17"×17" (1300×425×425 mm)<br>FDB2000:58"×38"×30" (1450×950×750 mm)   | FSD800: 52"×9"×17" (1300×225×425 mm)<br>FSD2000: 58"×28"×20" (1450×700×500 mm)<br>FST800: 48"×9"×25" (1200×225×625 mm)<br>FST2000: 58"×28"×30" (1450×700×750 mm) |