This diplexer allows users to combine specific L-band and S-band operations on to one common feed.

The model 18101 consists of a low band (1710 - 1850 MHz) bandpass filter section and a high band (2200 - 2500 MHz) bandpass filter section coupled together, resulting in superior isolation between the two bands.

**Specifications:**
- **Center Frequency (Fo):**
  - 1780 MHz (Band #1)
  - 2350 MHz (Band #2)
- **Insertion Loss @ Fo:**
  - 0.5 dB Max
- **Relative (0.25 dB) Bandwidth:**
  - 140 MHz Min (Band #1)
  - 300 MHz Min (Band #2)
- **VSWR (Over Rel. Bandwidth):**
  - 1.3:1 Max
- **Mutual Isolation:**
  - 75 dB Min
- **Impedance:**
  - 50 Ohms
- **Connectors:**
  - SMA-female
- **Operating Temperature Range:**
  - -30°C to +70°C
- **Dimensions:**
  - 7.05" x 1.63" x 0.86"
  - (179 mm x 41 mm x 22 mm)