



# CMD319

## PCS Duplexer With Bias Tee

Revision 3, 11/6/2002

### Receive Channel

Passband: 1850 - 1910 MHz  
Insertion Loss: 0.8 dB max.  
Flatness: 0.4 dB max.  
Return Loss: 15.0 dB min.  
Rejection:  
    DC – 1825 MHz 50 dB min  
    1930 – 5000 MHz 75 dB min  
Isolation Tx to Rx: 75 dB min.  
Intermodulation: -105 dBm max.  
Measured at the RX port  
with two +43dBm CW carriers  
at the TX port, ANT port  
terminated with low IMD 50  $\Omega$   
termination

### Transmit Channel

Passband: 1930 - 1990 MHz  
Insertion Loss: 0.8 dB max.  
Flatness: 0.4 dB max.  
Return Loss: 15.0 dB min.  
Rejection:  
    DC – 1910 MHz 75 dB min  
    2015 – 5000 MHz 50 dB min.  
Isolation Rx to Tx: 75 dB min.  
Power: 500 Watts CW Ave.  
5000 Watts PIP

Bias Tee: 24 Volts / 200 mA to Antenna Port  
Heat sinking: Direct Heat Sink Is Recommended But Not Required.  
Forced Air Not Required But Is Recommended.  
Connectors: Ant., TX, RX - 7/16 DIN Female  
Bias – Std. Feedthru Filter Conn.  
Finish: Unpainted Silver  
Dimensions: Per OL-CMD319 Rev. 1  
Operation Temp: -20° to +70°C  
Storage Temp: -40° to +85°C