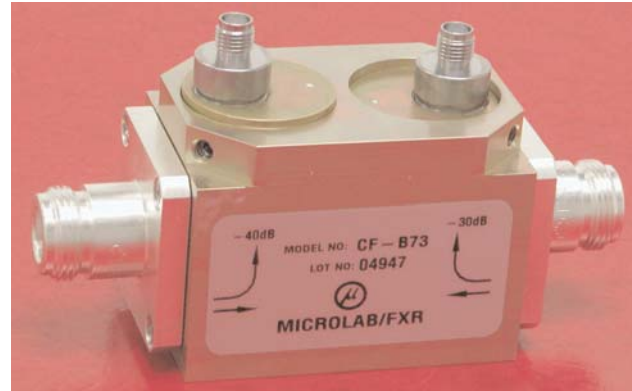


- ◆ Precise Setting of Coupling Value
- ◆ Single (CE-N) and Dual (CF-N) Models
- ◆ High Average Power Rating
- ◆ High Directivity
- ◆ Air Dielectric for minimal RF Insertion Loss
- ◆ High Reliability, Low PIM
- ◆ RoHS Compliant
- ◆ Models for all Cellular/UMTS bands



Microlab loop couplers are set-and-lock devices that provide precise coupling values over customer specified frequency ranges and excellent unit-to-unit tracking. Air dielectric main lines provide the extremely low insertion loss required to handle high power levels. They are available in single and dual units for use over bandwidths of 15% or less, anywhere in the 200 to 3000 MHz frequency range.

Microlab loop couplers are constructed from standardized designs and employ stocked components. Loop couplers exhibit a 6 dB per octave coupling variation, generally acceptable for system applications. Options include other connectors for the coupled port, 3 and 4 coupled ports, substitution of a loop coupler with a low pass filter that can carry a DC bias to the main line, and incorporation of a DC Block into the main line as required. Call for details. (8/08)

Frequency Range, MHz:	200 - 400	400 - 800	800 - 1200	1200 - 3000
Available Coupling Values, dB:	30 - 50	25 - 50	20 - 50	20 - 50
Main Line VSWR, max:	1.20:1	1.20:1	1.20:1	1.25:1
Coupled Line VSWR, max:	1.25:1	1.25:1	1.25:1	1.50:1
Dissipative Loss, dB max:	0.05	0.05	0.05	0.10
Directivity, dB:	25	25	25	20
Power Rating, Average:	750W	600W	500W	350W

Impedance: 50Ω nominal
 Intermod. Distortion: <-140 dBc (2 x 20W)
 Temperature: -35°C to +75°C indoor
 Peak Power: 10 kW max.
 Body Finish: Passivated Aluminum
 N Connectors: Silver or triplate
 SMA Connectors: Passivated stainless steel
 Weight CE/CF, nom: 9 (250)/13 (365) oz (g)

Coupling Specifications and Limitations

Coupling accuracy at mid-band:

For Coupling Values: 20 - 40 >40 dB
 Accuracy, dB: ±0.25 ±0.35

Coupling flatness:

Bandwidth: 2% 4% 10% 15%
 Flatness, dB: ±0.1 ±0.2 ±0.5 ±0.7

Available coupled arm connectors: N or SMA

