



WBC WIDEBAND COUPLER

- Cost Effective
- Portable
- Easy-To-Use



Bird® Electronic Corporation now offers a convenient, cost effective product for RF Power Measurement in High Power applications. The Bird BroadBand Directional Coupler uses the Bird Model 5000-EX, a handheld meter, with a Wideband Coupler and the Bird Terminating Power Sensor for accurate, repeatable readings of both UHF and VHF, forward and reflected power in broadcast facilities.

Once the line section is installed, power measurement is as simple as 1, 2, 3!

1. Connect the Terminating Power Sensor to the forward or reflected socket coupler.
2. Enter the offset value using the Model 5000 keypad.
3. Read the RF power output of your transmitter in Watts, kW, or dBm.

The BroadBand Directional Coupler is a cost effective Power Measurement alternative for your transmitter monitoring needs.



RF Measurement and Management in Your World



WBC WIDEBAND COUPLER

SPECIFICATIONS

Frequency Range: 45 MHz to 230 MHz (VHF Model) or
450 MHz to 890 MHz (UHF Model)
450 MHz to 800 MHz for 6" UHF Models)

Maximum Power: Transmission line and frequency dependent.
(See graph.)

Nominal Coupling: Transmission Line Dependent
(See Table 1)

Directivity: 28 db Min.

Coupler Output Connector: Type "N" Female

Coupler Output VSWR: 1.2 Max

Main Line VSWR: 1.1 Max

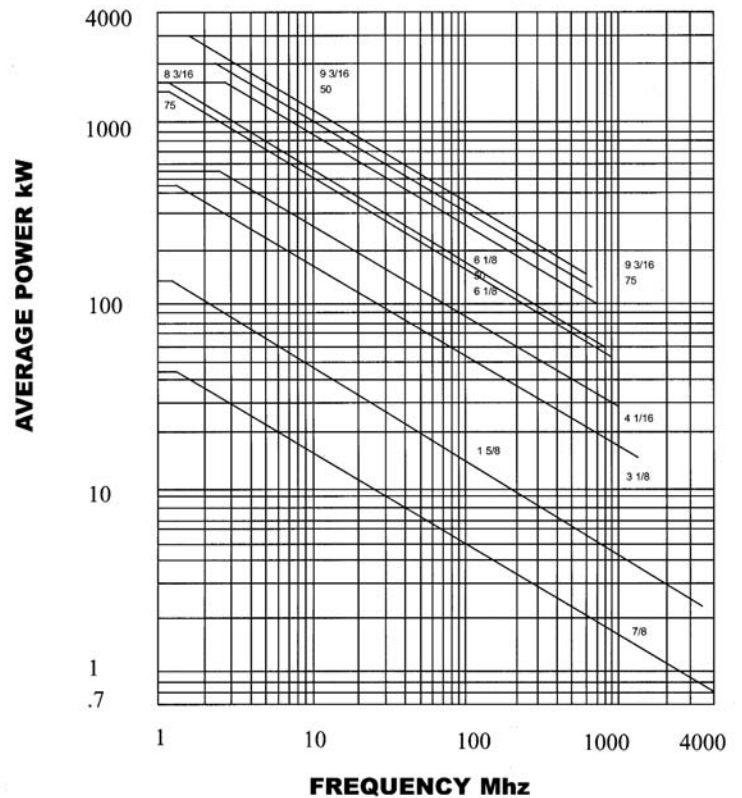
Coupling Uncertainty (after correction): +/- 0.05 dB

Operating Temperature: + 10° to + 40° C

Storage Temperature: - 20° to + 85° C

Weight: Transmission Line Dependent
(See Table 2)

Dimensions: Transmission Line Dependent
(See Table 2)



| | VHF | UHF |
|---------|--------------|--------------|
| 1-5/8" | 62 db ± 2 db | 59 db ± 2 db |
| 3-1/8" | 69 db ± 2 db | 64 db ± 2 db |
| 4-1/16" | 70 db ± 2 db | 67 db ± 2 db |
| 6-1/8" | 75 db ± 2 db | 72 db ± 2 db |

Table 1

| Line Size | Length (inches) | Weight (lbs.) |
|-----------------------------|-----------------|---------------|
| 1-5/8" Flanged | 6.75 | 3.65 |
| 1-5/8" Unflanged | 6.38 | 1.8 |
| 3-1/8" Flanged | 7.03 | 6.0 |
| 3-1/8" Unflanged (Recessed) | 6.5 | 2.75 |
| 3-1/8" Unflanged (Flush) | 6.5 | 2.75 |
| 4-1/16" Flanged | 8.38 | 8.88 |
| 4-1/16" Unflanged | 7.5 | 2.88 |
| 6-1/8" Flanged | 10.22 | 13.2 |
| 6-1/8" Unflanged | 9.63 | 7.2 |

Table 2