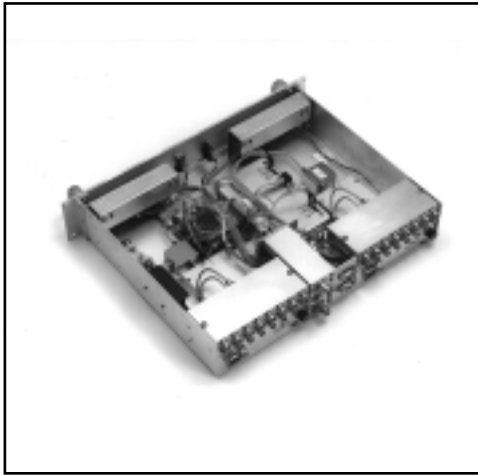


RF Monitoring Products



CATS MODEL 74507

DUAL RMC / VSWR MONITOR

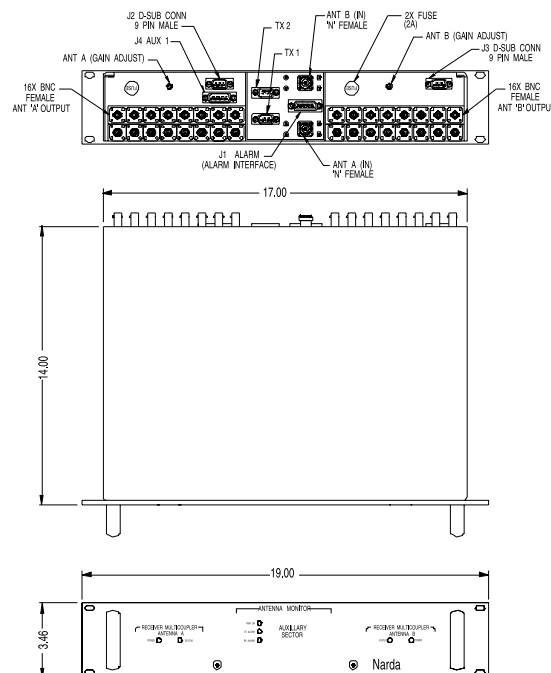
- Dual Low Noise, High IP3 RMC
- Rx VSWR Monitor
- Tx Power/VSWR Monitor
- Developed for Nortel Omni and Multi-Sector AMPS Cell Sites

DESCRIPTION

The CATS 74507 is a high performance dual receiver multicoupler (RMC) with an integrated CATS VSWR monitoring system. The RMC is designed to replace the original manufacturer's unit with a product that offers a lower noise figure and higher intercept point. The result is improved uplink performance and expanded cell site coverage. A CATS 74000 VSWR monitoring system (see page

120) is integrated into the RMC assembly and provides VSWR monitoring for the Rx antennas. An external Model 8455 Series Power/VSWR Monitor can be employed to monitor the power and VSWR of the Tx antenna. Companion products, CATS 74509 and CATS 75511, are offered to expand to multiple-sector configurations.

OUTLINE DRAWINGS



RF Monitoring Products

SPECIFICATIONS

| | |
|--|--|
| MODEL | CATS 74507/74509/74511 |
| UTILITY CATS 74507 CATS 74509 CATS 74511 | OMNI SITE OR PRIMARY SECTOR BETA SECTOR GAMMA SECTOR |
| FREQUENCY RANGE | 824 TO 849 MHZ |
| DUAL RMC | TWO CHANNELS |
| GAIN | MECHANICALLY ADJUSTABLE FROM 16 dB TO 26 dB |
| GAIN VARIATION OVER TEMPERATURE | ±1 dB MAX |
| NOISE FIGURE @25C | 2.25 dB MAX. |
| THIRD ORDER INTERCEPT (REFERENCED INPUT) | -5.0 dBm FOR TWO -25 dBm IN-BAND TONES |
| OUTPUT PORT ISOLATION | 25 dB MIN |
| INPUT / OUTPUT VSWR | 1.5:1 MAX |
| RF CONNECTORS INPUTS (2) OUTPUTS (32) | TYPE N FEMALE BNC FEMALE |
| ALARM | RED/GREEN LED STATUS INDICATORS FORM-C RELAY |
| RX VSWR MONITOR VSWR MEASUREMENT RANGE VSWR ACCURACY TEST SIGNAL | 1.07:1 TO 10:1 ±.3 @ 2.00:1 -15 dBm MAX |
| TX POWER/ VSWR MONITOR | 8455 SERIES |
| INTERFACE CATS 74507 CATS 74509 CATS 74511 | RS 232 RS 485 (ID #20) RS 485 (ID #30) |
| ALARMS | Tx AND Rx LED AND FORM-C RELAYS RMC STATUS LED AND FORM-C RELAY |
| OPERATING TEMPERATURE | 0 to 50°C |
| HUMIDITY | 0 TO 95% RH, NON-CONDENSING |