

CROSSBAND COUPLERS LOW LOSS / BROADBAND

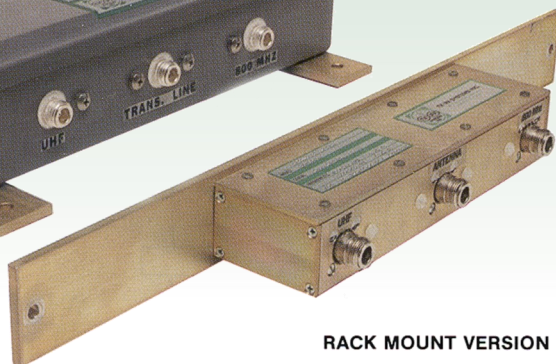
FOR TRANSMIT OR RECEIVE OPERATIONS
WITH DC PASS-THRU MODELS FOR TOWER MOUNT Rx SYSTEMS



WEATHERPROOF
TOWER MOUNT VERSION



RACK MOUNT VERSION



Crossband Couplers allow multiband operation of tower transmission lines, reducing cost and tower loading.

Tunable capacitors are replaced with large area transmission line structures for greater reliability.

Models are available for specialized transmit and receive applications. Cascading certain models will allow three frequency bands to use one transmission line. See reverse for typical applications. Complete response curves are available on request.

Tower mount models consist of the base station unit, less rack bar, in a weatherproof fiberglass housing which is sealed with silicone rubber adhesive.

MODEL NOS.		FREQUENCY BANDS COUPLED (MHz)	TYPICAL LOSS (dB)	ISOLATION (dB)	POWER RATING WATTS	(SEE NOTES BELOW)
WEATHERPROOF TOWER MOUNT	BASE STATION MOUNT					
80-05-01	80-05-02	406-512 MHz 806-960 MHz	0.20 0.20	40	750 500	
80-05-03	80-05-02	406-512 MHz 806-960 MHz	0.30 0.50	40	Receive only	1
80-05-04	80-05-05	406-512 MHz 806-960 MHz	0.30 0.50	40	250 Receive only	2
80-05-07	80-05-06	25-175 MHz 406-960 MHz	0.25 0.25	40	350 350	
80-05-09	80-05-08	25-175 MHz 406-960 MHz	0.35 0.50	40	Receive only	3
80-05-10	---	406-512 MHz 806-960 MHz	0.35 0.35	40	Receive only	4

COMMON SPECIFICATIONS

Temperature Range -40° to +70°C
VSWR (50 ohm ref.) 1.25:1
Connectors 'N' female

Dimensions WEATHERPROOF MODELS

H W L
3.5" x 6" x 13.75"

BASE STATION MODELS

H W D
2" x 19" x 3"

NOTES: 1. 80-05-03 will pass DC power between center conductors of all three terminals for operating separate Tower Mount receive systems.
WARNING: Do Not connect a DC grounded antenna directly to this Crossband Coupler if DC power is being passed.

2. DC will pass only between the transmission line terminal and the 800 MHz terminal for operating an 800 MHz Receive Tower Mount preamplifier. The UHF branch contains a series high current input capacitor to block DC and pass transmit power.

3. DC power passes through UHF and is blocked from VHF to antenna terminal.

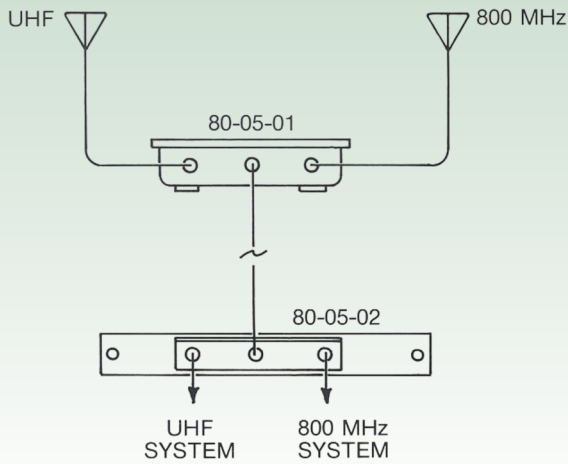
4. DC power passes through UHF and is blocked from 800 MHz to antenna terminal.

TX RX Systems Inc.

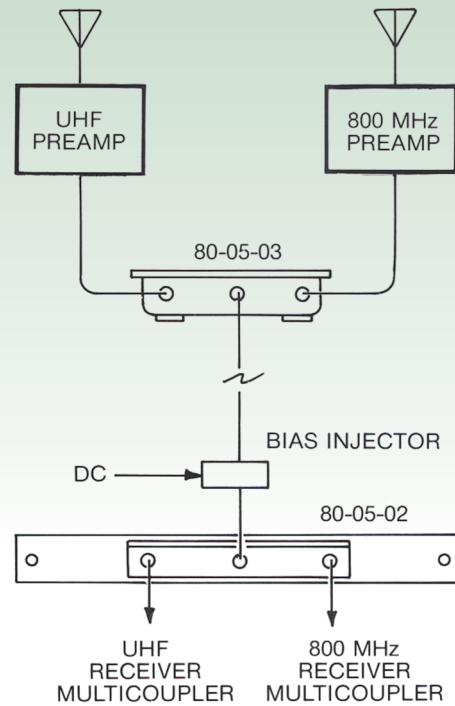
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TYPICAL CROSSBAND COUPLER INTERCONNECTIONS

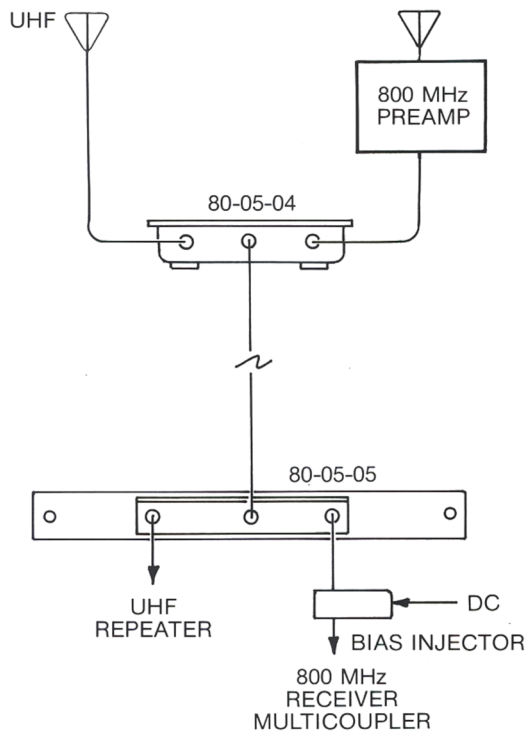
I. UHF/800 MHz Tx OR Rx USE (NO DC POWER TRANSFER)



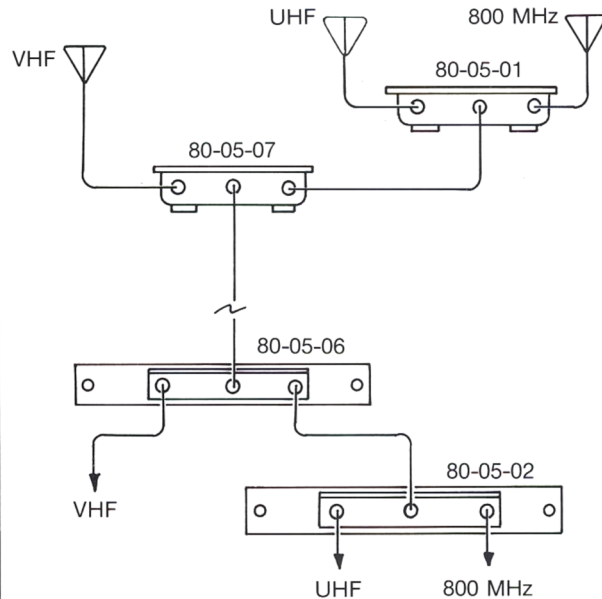
II. UHF/800 MHz TOWER MOUNTS



III. UHF TRANSMIT/800 MHz Rx TOWER MOUNT



IV. VHF/UHF/800 MHz



In this configuration, passing DC for Tower Mount Preamp is not a standard option.



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