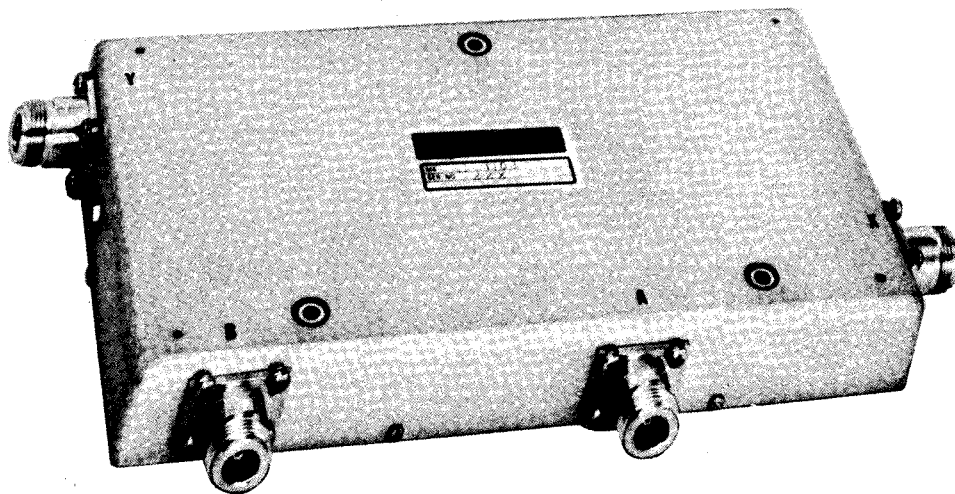


QUADRATURE 3 dB COUPLERS FOR COMBINING TRANSMITTERS



Model H-4103-2 and H-4105 hybrids are designed to combine the outputs of two transmitters operating on any two frequencies (within 1 MHz) in the 145-174 MHz and 450-512 MHz bands respectively. An external resistive load, capable of dissipating half the power of both transmitters, must be connected to the load port. The tunable L-C network at the output (antenna) port allows the hybrid to be matched to a slightly mismatched (reactive) antenna system with a VSWR of up to 1.5 to 1. With a matched antenna load and a matched resistive load, the hybrid will provide over 40 dB Isolation between the transmitters connected to the input ports. If the VSWR of the antenna system changes, and the hybrid is not retuned, the hybrid isolation will deteriorate as shown on the curve on the back of this page.

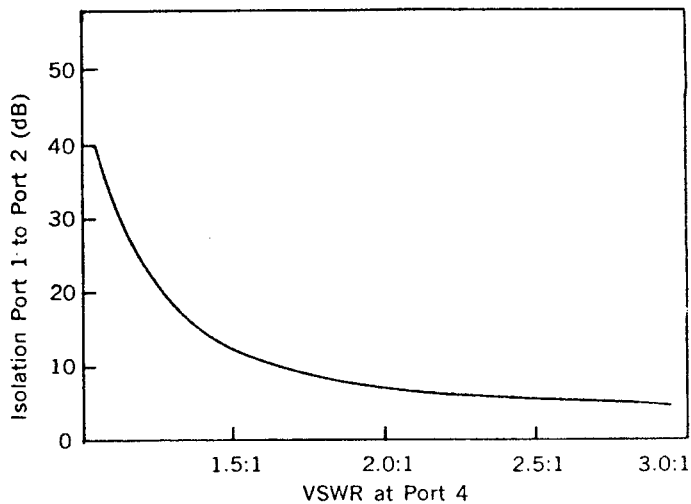
SPECIFICATIONS

	H-4103-2	H-4105
Frequency range	145-174 MHz	450-512 MHz
Isolation (with matched 50 ohm antenna load)	40 dB	40 dB
Insertion Loss		
Typical	3.2 dB	3.2 dB
Maximum	3.4 dB	3.4 dB
Maximum Tx to Tx Frequency separation	1 MHz	1 MHz
Maximum power input (each channel) . . .	400 watts	400 watts
Temperature range	-30° to +60°C	-30° to +60°C
Connectors	N Female	N Female

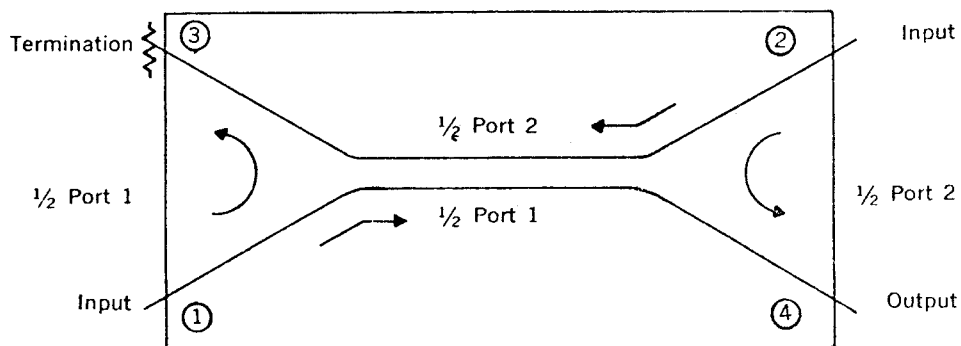


M/A-COM LAND MOBILE COMMUNICATIONS INCORPORATED

HYBRID INPUT ISOLATION



SCHEMATIC



MECHANICAL SPECIFICATIONS

