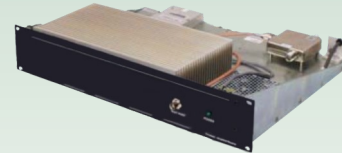
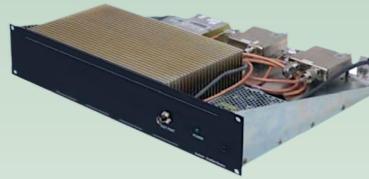


Tx and Rx Duplexing 1 & 2 Channel Systems 133-174 MHz



This product has been designed to simplify and standardize site installations, and to provide improved system performance through the reduction of system noise figure, as well as minimizing the risk for intermodulation. These performance enhancements are accomplished by providing the capability for up to two transmitters/ receivers to share a common antenna. A high performance low noise amplifier is included in the receive signal path in order to improve system noise figure, with isolators placed at the transmit inputs to minimize the risk of intermodulation resulting from the presence of external signals. All of the above features are available in a self-contained, rack mounted package with significant advantages in size as compared to conventional solutions.

FEATURES

- ▶ Integrated duplexer allows sharing of single transmission line and antenna
- ▶ Compact design– uses a minimum amount of rack space
- ▶ Integrated isolators on transmitter input ports
- ▶ LNA reduces noise figure and improves sensitivity
- ▶ Integrated Test Port for testing without interrupting system operation
- ▶ Hybrid design allows combining with no regard to minimum Tx-Tx frequency separation
- ▶ Integrated Tx to Rx antenna isolation exceeds minimum isolation required by repeaters

PRODUCT SPECIFICATIONS

	1 channel	2 channel
Model Number	26-36H-01-01	26-36H-01-02
Frequency Band	133-174 MHz	133-174 MHz
Minimum Tx-Tx spacing	No minimum	No minimum
Minimum Tx-Rx spacing	3 MHz	3 MHz
BW of Tx passband	1 MHz	1 MHz
BW of Rx passband	1 MHz	1 MHz
Filter rejection @ 3 MHz from band edge	90 dB min	90 dB min
Filter rejection @ 4 MHz from band edge	100 dB min	100 dB min
Filter rejection @ 5 MHz from band edge	90 dB min	90 dB min
System Insertion Loss (Tx-Ant)	3.0 dB max	6.0 dB max
System Noise Figure (Ant-Rx)	5.0 dB max	5.0 dB max
Return Loss (all ports)	14 dB min	14 dB min
Net gain (Ant-Rx)	8 dB typ	8 dB typ
Amplifier Type	Quadrature Coupled	Quadrature Coupled
Amplifier Noise Figure	2.8 dB	2.8 dB
Amplifier OIP3	40 dBm min	40 dBm min
Maximum Transmit Power (Continuous)	100 W	100 W
Rx-Rx Isolation	N/A	20 dB min
Tx-Tx Isolation	N/A	50 dB min
Test Port Connector	BNC-Female	BNC-Female
Tx Port Connector	N-Female	N-Female
Rx Port Connector	BNC-Female	BNC-Female
Antenna Port Connector	7-16 DIN-Female	7-16 DIN-Female
PIM Characteristics	Tolerant	Tolerant
Power Supply Voltage	90-240 VAC	90-240 VAC
Current draw	75 mA @ 110 VAC	75 mA @ 110 VAC
Dimensions (HWD)	5RU x 19" x 15"	5RU x 19" x 15"



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