



HIGH POWER TRANSCEIVER **TWO-WAY DIGITAL SERVICE OVER MMDS-MDS**

(Full Duplex Outdoor Subscriber Unit)

THE BEST JUST GOT BETTER FROM THE ONE COMPANY "GLOBALLY COMMITTED TO QUALITY".
THE **LSI-350STR SERIES** OF POWER TRANSCEIVERS ARE THE ANSWER TO A MARKETPLACE DEMANDING
HIGH PERFORMANCE AND RELIABILITY, HIGH SPEED AND HIGH POWER, ALL AT THE LOWEST POSSIBLE COST.

TECHNICAL CHARACTERISTICS OF THE LSI-355STR

PARAMETER

SPECIFICATION

TRANSMITTER SECTION

INPUT FREQUENCY	28~40MHz	(other input, output and LO
OUTPUT FREQUENCY	2150~2162MHz	(frequency options available,
LOCAL OSCILLATOR FREQUENCY	2122MHz	(consult factory.)
CONVERSION GAIN	22dB, typical	
OUTPUT POWER, 1dB COMPRESSION POINT	30dBm, minimum	

RECEIVING DOWN CONVERTER SECTION

INPUT FREQUENCY	2500~2686MHz	(other input, output and LO
OUTPUT FREQUENCY	222~408MHz	(frequency options available,
LOCAL OSCILLATOR FREQUENCY	2278MHz	(consult factory.)
NOISE FIGURE @ 25 DEGREES C	2.5dB, typical	
CONVERSION GAIN	24dB, typical	
GAIN FLATNESS OVER ENTIRE BAND	+/- 1.5dB, typical	
GAIN FLATNESS OVER ONE CHANNEL	+/- 0.25dB, typical	

OVERALL PERFORMANCE WITH STANDARD CABLE MODEM

	DOWNSTREAM	UPSTREAM
LO FREQUENCY STABILITY	+/- 10kHz	+/- 5kHz
PHASE NOISE	-90dBc/Hz at 10kHz offset	
RF INPUT/OUTPUT CONNECTOR	50 ohm N jack for transmit/receive antenna	
IF INPUT/OUTPUT CONNECTOR	75 ohm F jack for transmit/receive modem	
POWER SUPPLY (through IF bias tee)	+14 ~+16VDC	
POWER CONSUMPTION	0.9 Amps, maximum	
TEMPERATURE	-10 to 40C operating, -40 to +70C storage	
HUMIDITY	0-100% condensing (weather-proof)	
DIMENSIONS AND WEIGHT	4.5"x10"x12", 9.0 lbs.	

FEATURES

1930-1990MHz PCS IMMUNITY	100dB rejection	N/A
2305-2360MHz WCS IMMUNITY	100dB rejection	N/A
INTEROPERABILITY (1x10e-9 BER)	at 23dB CNR	at 16dB CNR
OPERATING RANGE (extended)	20~40 miles, line of sight	
RF and IF DUPLEXERS (internal)	Single antenna and single cable operation	

Specifications subject to change 8-98

