

C+A

MDS-MMDS TRANSCEIVER

PART NUMBER

520004-1

Downconverter Specifications: (Rx)

RF Input Frequency	2500 - 2700 MHz
IF Output Frequency	222 - 422 MHz
Gain	32 ± 6 dB (-30°C to +60°C)
Gain Flatness	3.5 dB typ., 4.5 dB Max. (-30°C to +60°C)
Noise Figure	4.0 dB typ.; 5.5 dB Max at upper end of band
IMD (Two tone test at -1 dBm each at the output)	-50 dBc Max.
Output 3rd Order Intercept	24 dBm Min.
Image Rejection (PCS Band inclusive)	85 dB Min. (60 dB is pre-LNA)
WCS Rejection	100 dB Min. (35 dB is pre-LNA)
Out-of-Band Rejection	40 dB at 2750 MHz Min.
.....	40 dB at 2450 MHz Min.
IF Rejection	-85 dBc Max.
In-Band Spurious	-80 dBm Max.

Upconverter Specifications: (Tx)

IF Input Frequency	14.375 - 26.375 MHz
RF Output Frequency	2150 - 2162 MHz
Gain	25 ± 5 dB (-30°C to +60°C)
Gain Flatness	3 dB Max. (-30°C to +60°C)
Output 1-dB Compression Point	+28 dBm Min.
Output Transmit Noise	-122 dBm/Hz Max.
Output Spurious/Harmonics (+25 dBm Tx Out)	-60 dBc (Both in-band and out of Band)
Switch Threshold IF Input Level (QPSK CH.)	-50 dBm Max.
Switching Speed (On/Off)	15 usec. Max.

General Specifications:

LO Frequency	2278 MHz ± 10 KHz (-30°C to +60°C)
Phase Noise	-65 dBc/Hz @ 100 Hz
.....	-85 dBc/Hz @ 1 KHz
.....	-93 dBc/Hz @ 10 KHz
.....	-98 dBc/Hz @100 KHz
IF Connector (Rx out / Tx In)	F-Type, 75 Ohm
RF Connector (Rx In / Tx out)	N-Type, 50 Ohm
Tx/Rx IF Return Loss	Tx In: -10 dB; Rx Out: -6 dB Max.
Tx/Rx RF Return Loss	-7 dB Max.
DC Supply	16 to 24 Volts DC @ 550 mA
Operating Temperature	-30°C to +60°C
Finish	Chem. Film, MIL-C-5541, Class 3, Yellow
Physical Dimension:	
Size	6.7x6.7x2.7 in., (170x170x70 mm.)
Weight	36 oz. (1000 gm.)
All Specifications are at 25°C unless otherwise specified.	

Above specifications subject to change without notice.

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SPEC FORM: M520004-1

REV: 1

DATE: 12/99