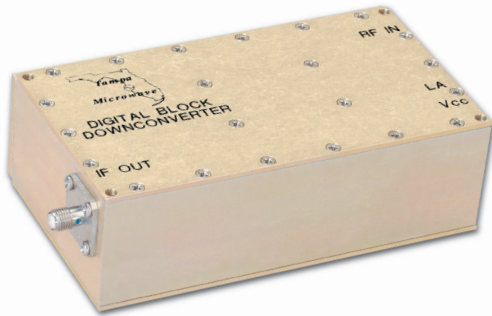


BLOCK DOWN CONVERTERS



FEATURES:

L BAND INPUT

C, X, Ku AND Ka INPUTS

LOW PHASE NOISE

TAMPA MICROWAVE BLOCK DOWN CONVERTERS are specifically designed to translate L-Band input frequencies to either C, X, Ku or Ka Band to L-Band output frequencies. These block down converters have the quality and stability required for demanding receiver applications.

OPTIONS

- INPUT FILTERING
- CUSTOM CONFIGURATIONS
- INTERNAL CRYSTAL REFERENCE, STABILITY < 0.1 ppm
- OPTIONAL CONVERSION GAIN
- EXTERNAL REFERENCE
- RACK MOUNT
- EXTENDED TEMPERATURE RANGE -40° TO +85° C

STANDARD PHASE-LOCKED BLOCK DOWN CONVERTERS

TABLE 1

PART NUMBER *	INPUT FREQ.	OUTPUT FREQ.	INPUT CONN.	OUTPUT CONN.
BDC-5150 **	3.4 TO 4.2 GHz	950 TO 1750 MHz	"N" FEMALE	"N" FEMALE
BDC-6300	7.25 TO 7.75 GHz	950 TO 1450 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-10000	10.95 TO 11.70 GHz	950 TO 1700 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-10750	11.70 TO 12.75 GHz	950 TO 2000 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-11300	12.25 TO 12.75 GHz	950 TO 1450 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-13050	14.00 TO 14.50 GHz	950 TO 1450 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-17250	18.2 TO 19.2 GHz	950 TO 1950 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-18250	19.2 TO 20.2 GHz	980 TO 1950 MHz	"SMA" FEMALE	"SMA" FEMALE
BDC-19250	20.2 TO 21.2 GHz	980 TO 1950 MHz	"SMA" FEMALE	"SMA" FEMALE

*The TML part number indicates the LO frequency in MHz. BDC-"LOFREQ".

** This BDC inverts the frequency spectrum of the input.

CONTINUED >

SPECIFICATIONS

FUNCTIONAL:

INPUT FREQUENCY: SEE TABLE 1

OUTPUT FREQUENCY: SEE TABLE 1

LO FREQUENCY STABILITY: +/- 2 ppm

LO PHASE NOISE: -75 dBc @ 1kHz OFFSET
-85 dBc @ 10 kHz OFFSET
-95 dBc @ 100 kHz OFFSET

LO TO IF LEAKAGE: -20 dBm TYP

LO TO RF LEAKAGE: -20 dBm MAX.

NOISE FIGURE: 10 dB MAX.

MID BAND CONVERSION GAIN MIN.: 18 dB

MID BAND CONVERSION GAIN MAX.: 22 dB

CONVERSION GAIN FLATNESS OVER FREQ.: +/-1 dB MAX.

GAIN FLATNESS PER 40 MHz: +/-0.5 dB MAX.

MID BAND GAIN STABILITY VS TEMP: +/-1 dB

1DB COMPRESSION POINT (OUTPUT): 3 dBm MIN.

3RD ORDER INTERCEPT (OUTPUT): +13 dBm MIN.

IMAGE REJECTION: 20 dB MIN.

INTERNAL SPURIOUS NON SIG REL: -85 dBm WITHIN RF OUTPUT BAND
SIG REL: -65 dBc WITHIN RF OUTPUT BAND

INPUT/OUTPUT VSWR 50 OHMS: 1.8:1 MAX.

POWER REQUIREMENTS:

VOLTAGE: 15 TO 18 VDC

POWER CONSUMPTION: 500 mA MAX. VIA FILTER FEEDTHROUGH OR IF CONNECTOR

PHYSICAL:

WEIGHT: 25 OUNCES NOM.

SIZE: 2.61 X 4.55 X 1.45 INCHES

INPUT CONNECTOR: SEE TABLE 1

OUTPUT CONNECTOR: SEE TABLE 1

LOCK ALARM CONNECTOR: OPEN DRAIN WHEN LOCKED
(OPTIONAL TTL LEVEL)

GROUND CONNECTOR: SOLDER TURRET

ENVIRONMENTAL:

TEMPERATURE RANGE: -40 TO + 50 DEG. C

STANDARD HOUSING

