

**ELECTRICAL SPECIFICATIONS:**

- 1.) FREQUENCY RANGE: 1000 - 2000 MHz
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 0.7 dB (ABOVE 4.77 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.2 dB
- 5.) PHASE BALANCE (MAX): 3 DEGREES
- 6.) ISOLATION (MIN): 18 dB
- 7.) INPUT VSWR (MAX): 1.30 : 1
- 8.) OUTPUT VSWR (MAX): 1.25 : 1
- 9.) DC VOLTAGE (MAX): 10 V
- 10.) DC CURRENT (MAX): 50 mA

**MECHANICAL SPECIFICATIONS:**

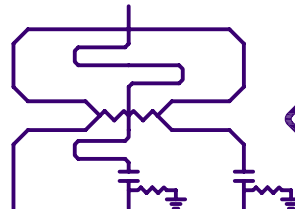
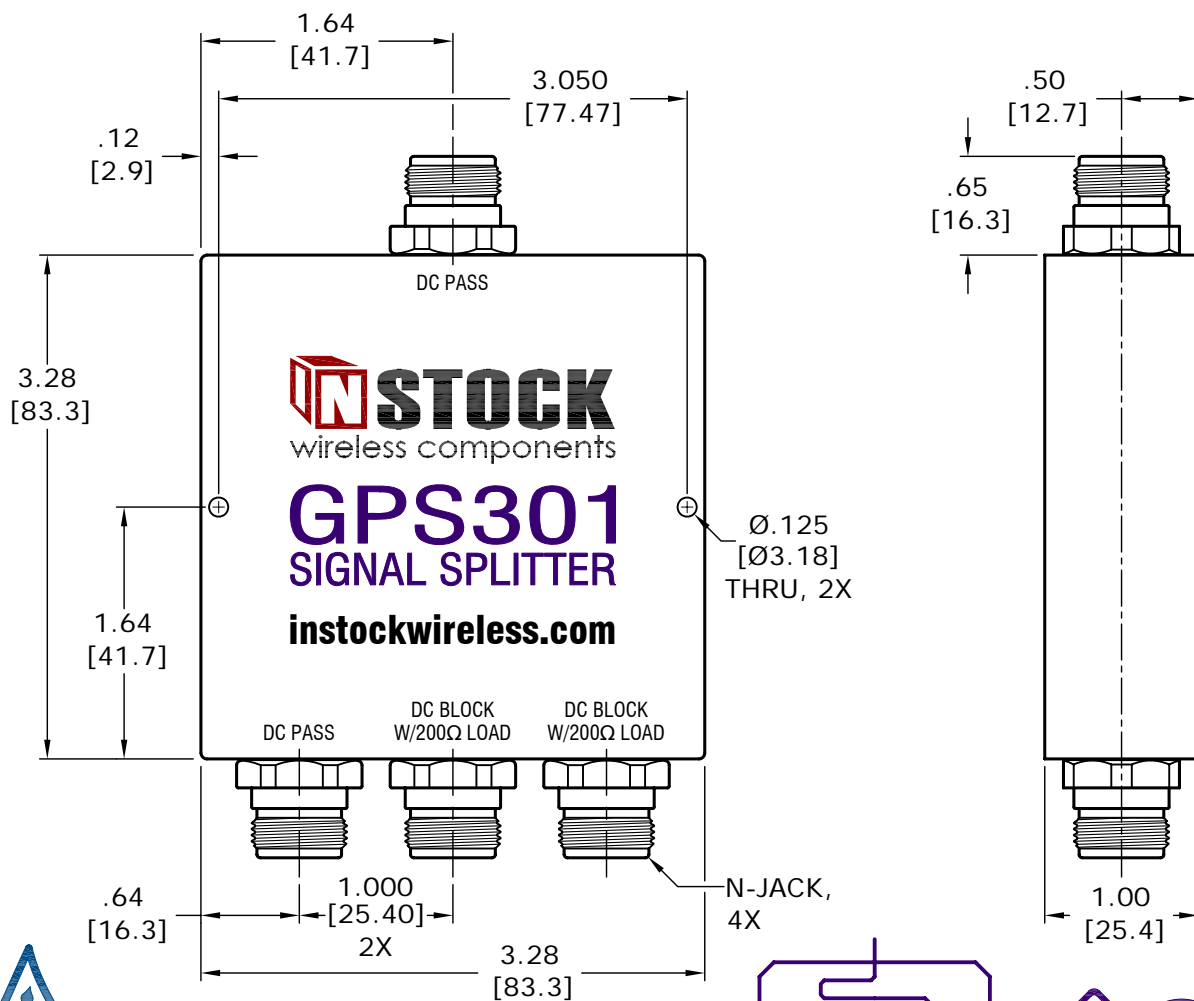
- 1.) CONNECTORS: TYPE-N FEMALE (JACK), 50 OHM
- 2.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- 3.) CONNECTOR PIN: PHOSPHOR BRONZE, GOLD PLATE
- 4.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 5.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 6.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 7.) PROTECTION RATING: IP67 WATER AND WEATHER RESISTANT
- 8.) OPERATING TEMP: -65°C TO +85°C
- 9.) WEIGHT: 480 GRAMS

**RF INPUT POWER RATING (POWER DIVIDER SPLITTER):**

INTO MATCHED LOAD VSWR's	IN-PHASE	180° OUT-OF-PHASE
1.2 : 1	20 WATTS	20 WATTS
2.0 : 1	20 WATTS	10 WATTS
∞	10 WATTS	1 WATT

**RF INPUT POWER RATING (POWER COMBINER):**

COHERENT SIGNALS (IN-PHASE)	3 X 6.67 WATTS
COHERENT SIGNALS (180° OUT-OF-PHASE)	3 X 0.33 WATTS
NON-COHERENT SIGNALS	3 X 0.67 WATTS
OTHER CONDITIONS - CONSULT FACTORY	



**3-way, GPS signal splitter; DC pass 1 port, DC block 2 ports w/200Ω loads. Typically used for powering an active antenna thru pass ports while splitting GPS signal 3 ways.**

TOLERANCES	
INCHES	MILLIMETERS
.00 = ±.01	.0 = ±.25
.000 = ±.004	.00 = ±.10
DRAWN: MJD	APPROVED: EMM
DATE: 08/27/09	DATE: 08/27/09



MODEL NO.	<b>GPS301</b>
TITLE	GPS SPLITTER, 3 WAY, TYPE N FEMALE JACK, 1 - 2 GHz, 20 W, RoHS, IP67 WEATHERPROOF, DC BLOCK 2 PORTS W / 200Ω INTERNAL LOAD

REV	DESCRIPTION	BY	DATE