

ELECTRICAL SPECIFICATIONS:

- 1.) FREQUENCY RANGE: 1000 - 2000 MHz
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 0.6 dB (ABOVE 6.02 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.3 dB
- 5.) PHASE BALANCE (MAX): 3 DEGREES
- 6.) ISOLATION (MIN): 22 dB
- 7.) INPUT VSWR (MAX): 1.35 : 1
- 8.) OUTPUT VSWR (MAX): 1.20 : 1
- 9.) DC VOLTAGE (MAX):

<u>DC PASS</u>	<u>DC BLOCK</u>
50 V	15 V
- 10.) DC CURRENT (MAX):

<u>DC PASS</u>	<u>DC BLOCK</u>
2000 mA	75 mA

MECHANICAL SPECIFICATIONS:

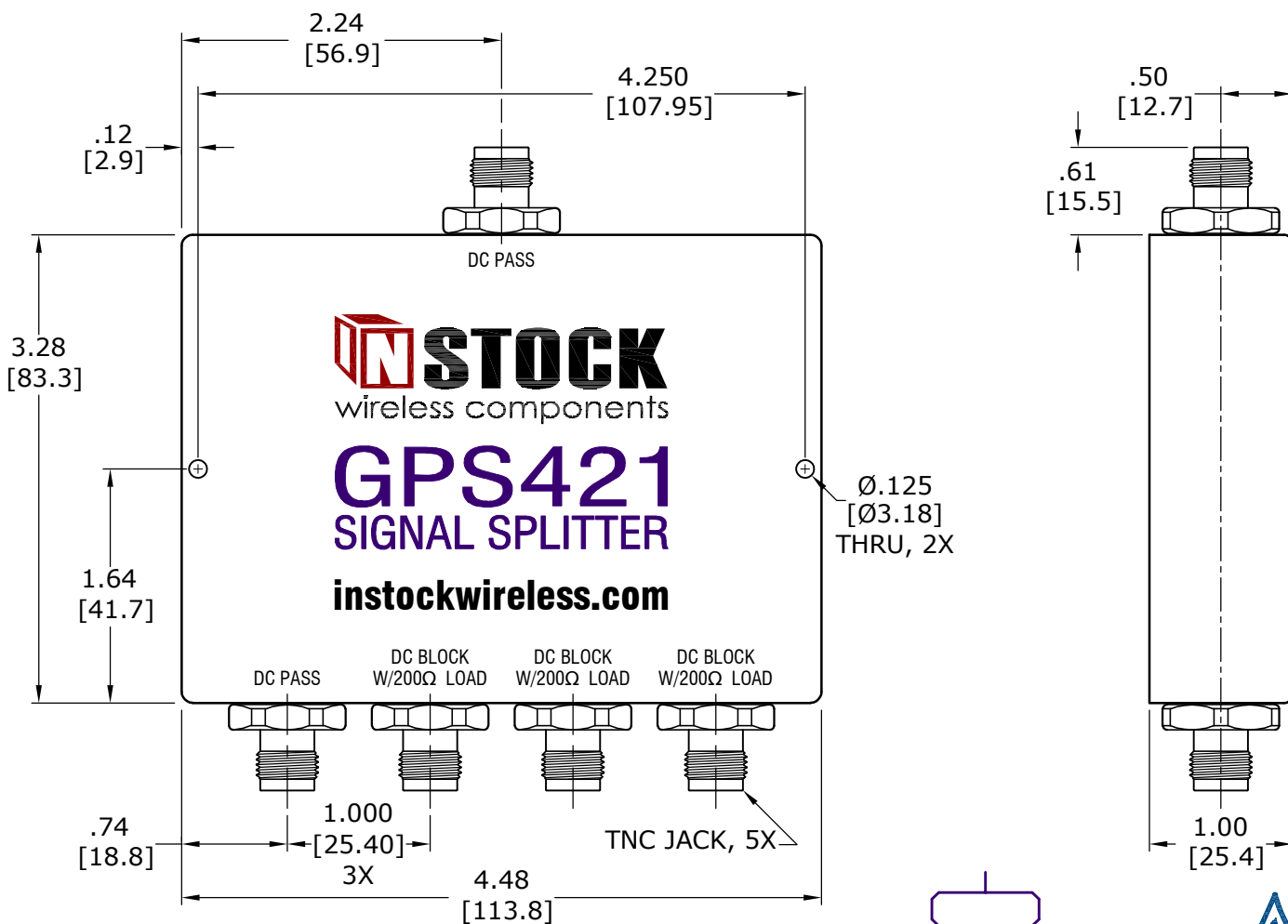
- 1.) CONNECTORS: TNC FEMALE (JACK), 50 OHM
- 2.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- 3.) CONNECTOR PIN: BERYLLIUM COPPER, GOLD PLATE
- 4.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 5.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 6.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 7.) PROTECTION RATING: IP67 WATER AND WEATHER RESISTANT
- 8.) OPERATING TEMP: -65°C TO +85°C
- 9.) WEIGHT: 585 GRAMS

RF INPUT POWER RATING (POWER DIVIDER SPLITTER):

<u>INTO MATCHED LOAD VSWR's</u>	<u>IN-PHASE</u>	<u>180° OUT-OF-PHASE</u>
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)	4 X 5 WATTS
COHERENT SIGNALS (180° OUT-OF-PHASE)	4 X 0.25 WATTS
NON-COHERENT SIGNALS	4 X 0.5 WATTS
OTHER CONDITIONS - CONSULT FACTORY	



4-way, GPS signal splitter; DC pass 1 port, DC block 3 ports w/200Ω loads. Typically used for powering an active antenna thru pass ports while splitting GPS signal 4 ways.

TOLERANCES	
INCHES	MILLIMETERS
.00 = ±.01	.0 = ±.25
.000 = ±.004	.00 = ±.10
DRAWN: KMG	APPROVED: MJD
DATE: 11/01/17	DATE: 11/01/17



MODEL NO.	GPS421
TITLE	GPS SPLITTER, 4 WAY, TNC FEMALE JACK, 1 - 2 GHz, 20 W, RoHS, IP67 WEATHERPROOF, DC BLOCK 3 PORTS W / 200Ω INTERNAL LOAD

REV	DESCRIPTION	BY	DATE