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):	10 V
10.) DC CURRENT (MAX):	50 mA

MECHANICAL SPECIFICATIONS:

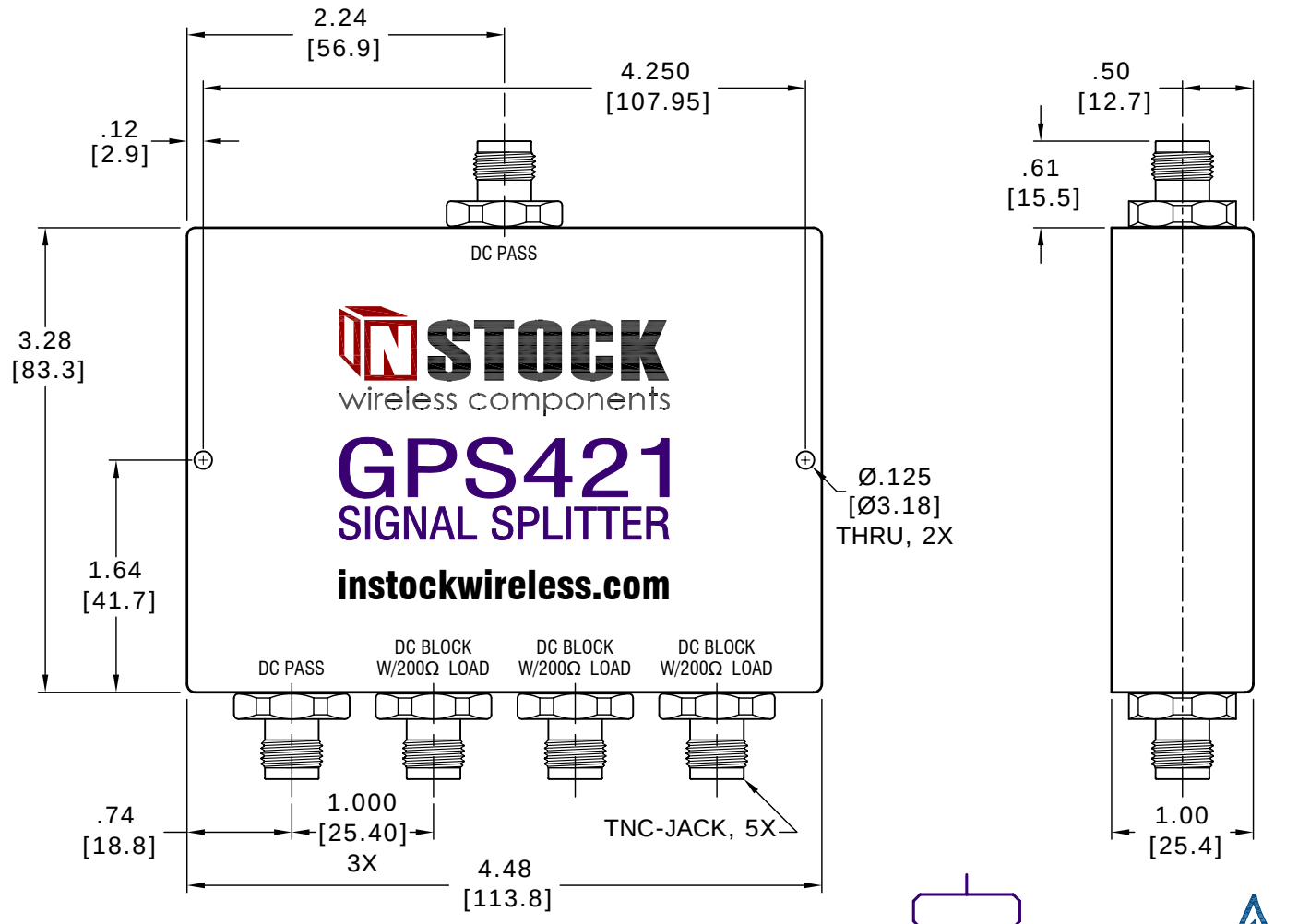
1.) CONNECTORS:	TNC FEMALE (JACK), 50 OHM
2.) CONNECTOR BODY:	BRASS, TRI-ALLOY PLATE
3.) CONNECTOR PIN:	BERYLLIUM COPPER, GOLD PLATE
4.) INSULATOR:	PTFE, VIRGIN ELECTRICAL GRADE
5.) HOUSING:	ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
6.) SOLDER:	LEAD FREE, RoHS COMPLIANT
7.) 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):

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)	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	



INSTOCK wireless components

GPS421
SIGNAL SPLITTER

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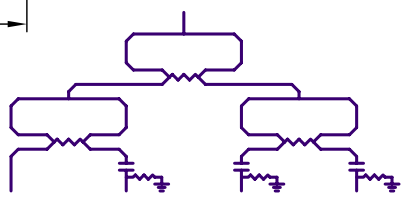

IP67

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.

REV	DESCRIPTION	BY	DATE

TOLERANCES	
INCHES	MILLIMETERS
.00 = ±.01	.0 = ±.25
.000 = ±.004	.00 = ±.10
DRAWN: TRD	APPROVED: MJD
DATE: 3/06/16	DATE: 3/06/16

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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