

**ELECTRICAL SPECIFICATIONS:**

- 1.) FREQUENCY RANGE: 1000 - 2000 MHz
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 1.5 dB (ABOVE 10.79 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.5 dB
- 5.) PHASE BALANCE (MAX): 8 DEGREES
- 6.) ISOLATION (MIN): 18 dB
- 7.) INPUT VSWR (MAX): 1.45 : 1
- 8.) OUTPUT VSWR (MAX): 1.25 : 1
- 9.) DC VOLTAGE/CURRENT (MAX): 10 V/50 mA

**MECHANICAL SPECIFICATIONS:**

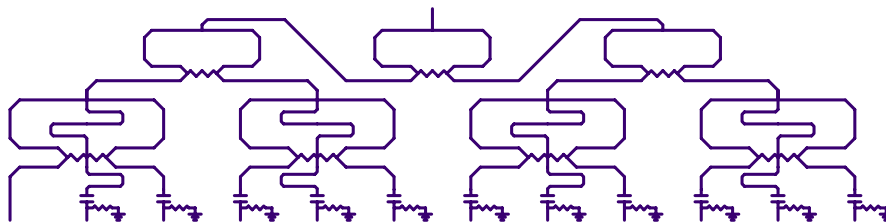
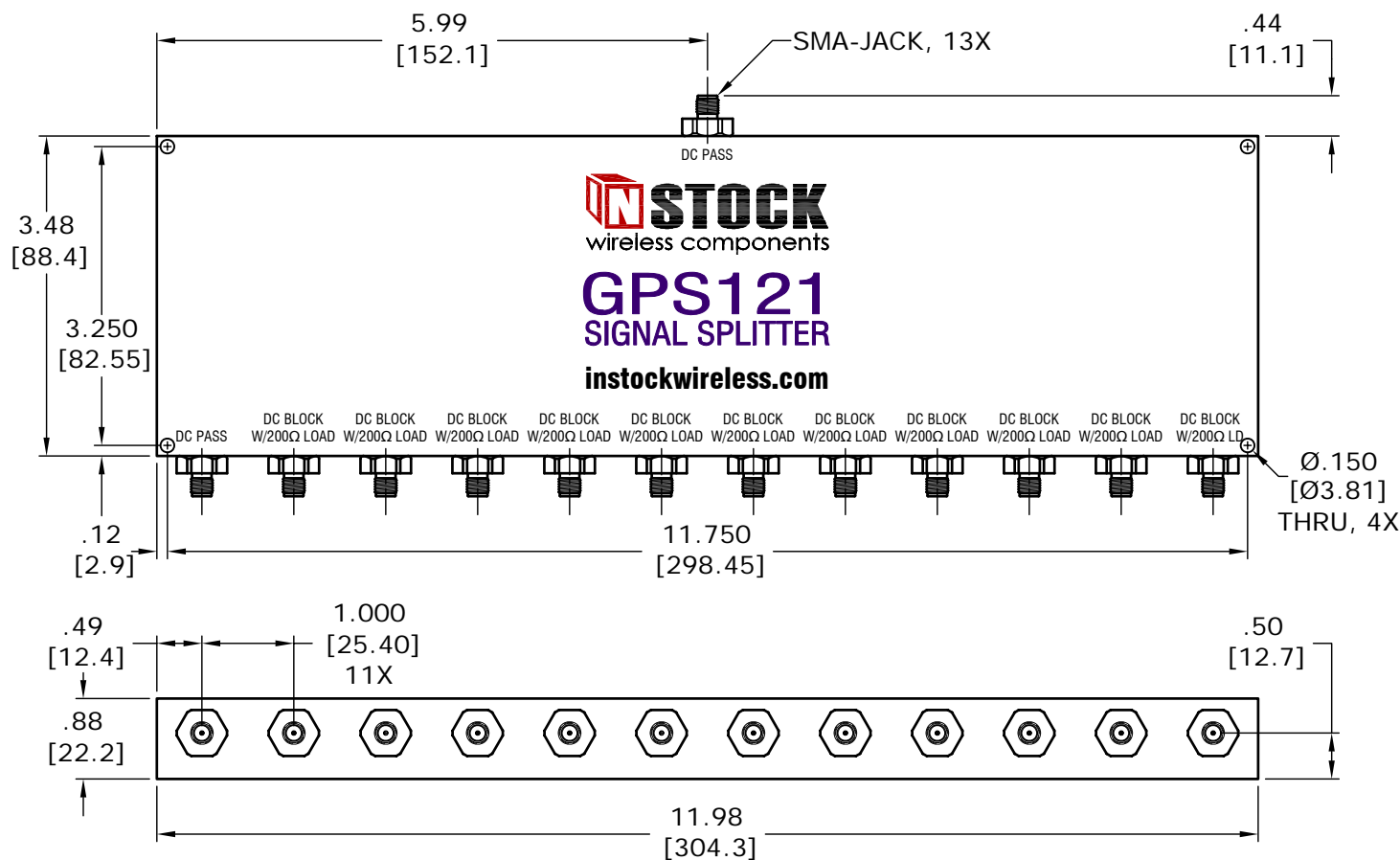
- 1.) CONNECTORS: SMA FEMALE (JACK), 50 OHM
- 2.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- 3.) CONNECTOR PIN: BERYLLIUM COPPER, GOLD PLATE
- 4.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 5.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 6.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 7.) OPERATING TEMP: -65°C TO +85°C
- 8.) WEIGHT: 1283 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	20 WATTS
∞	10 WATTS	2 WATTS

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

COHERENT SIGNALS (IN-PHASE)	12 X 1.67 WATTS
COHERENT SIGNALS (180° OUT-OF-PHASE)	12 X 0.17 WATTS
NON-COHERENT SIGNALS	12 X 0.33 WATTS
OTHER CONDITIONS - CONSULT FACTORY	



**12-way, GPS signal splitter; DC pass 1 port, DC block 11 ports w/200Ω loads. Typically used for powering an active antenna thru pass ports while splitting GPS signal 12 ways.**

REV	DESCRIPTION	BY	DATE

TOLERANCES	
INCHES	MILLIMETERS
.00 = ±.01	.0 = ±.25
.000 = ±.004	.00 = ±.10
DRAWN: MJD	APPROVED: EMM
DATE: 12/08/08	DATE: 12/08/08



MODEL NO.	<b>GPS121</b>
TITLE	GPS SPLITTER, 12 WAY, SMA FEMALE, 1 - 2 GHz, 20 WATTS, RoHS, DC BLOCK 11 PORTS, WITH 200Ω INTERNAL LOADS