

**ELECTRICAL SPECIFICATIONS:**

- 1.) FREQUENCY RANGE: 1000 - 2000 MHz
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 1.4 dB (ABOVE 12.04 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.6 dB
- 5.) PHASE BALANCE (MAX): 8 DEGREES
- 6.) ISOLATION (MIN): 22 dB
- 7.) INPUT VSWR (MAX): 1.50 : 1
- 8.) OUTPUT VSWR (MAX): 1.20 : 1
- 9.) DC VOLTAGE (MAX): 10 V
- 10.) DC CURRENT (MAX): 50 mA

**MECHANICAL SPECIFICATIONS:**

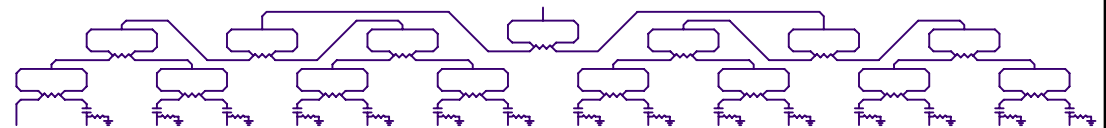
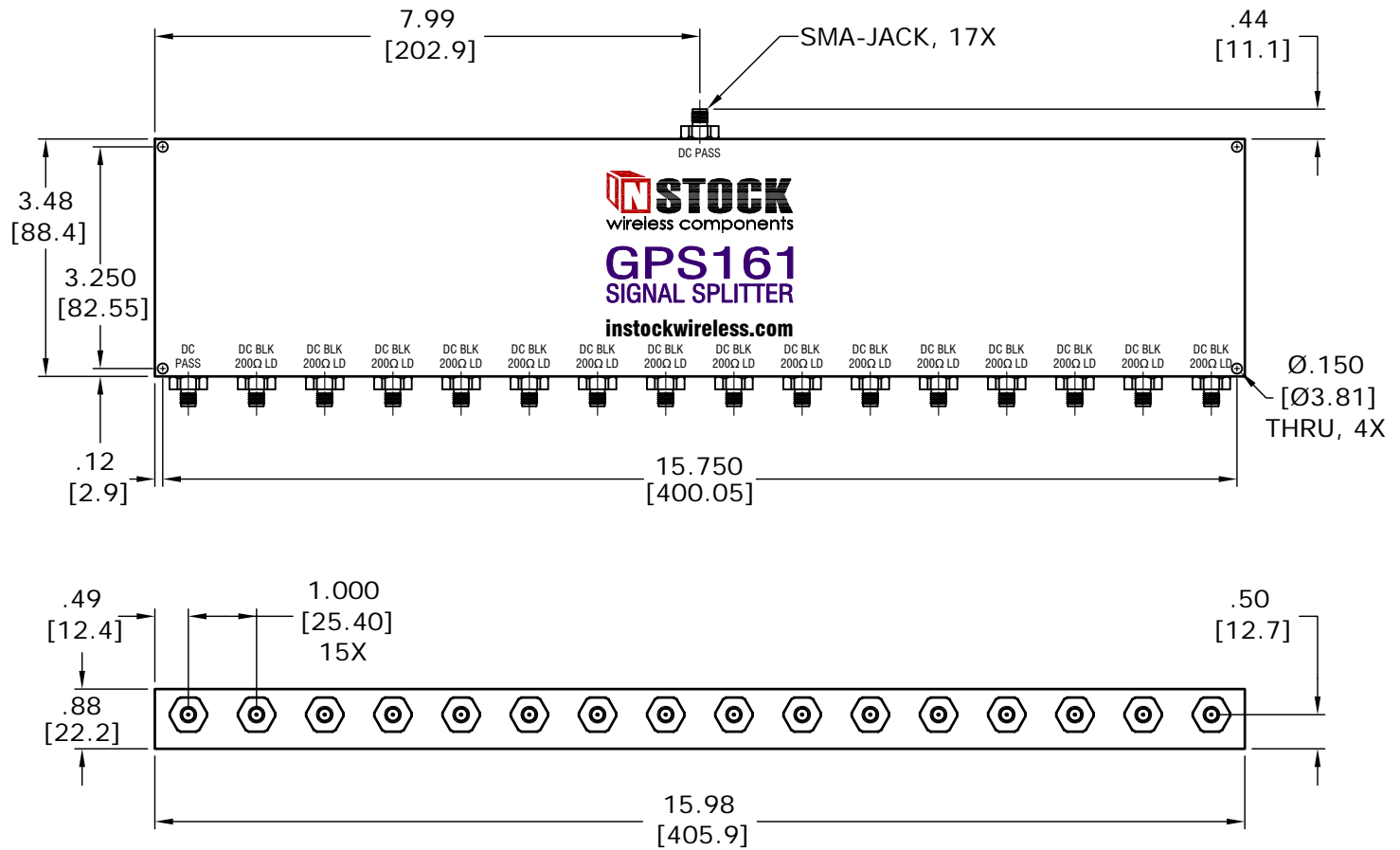
- 1.) CONNECTORS: SMA FEMALE (JACK), 50 OHM
- 2.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- 3.) CONNECTOR PIN: BERYLLIUM COPPER, GOLD PLATE
- 4.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 5.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 6.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 7.) OPERATING TEMP: -65°C TO +85°C
- 8.) WEIGHT: 1690 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 | 4 WATTS           |

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

|                                      |                  |
|--------------------------------------|------------------|
| COHERENT SIGNALS (IN-PHASE)          | 16 X 1.25 WATTS  |
| COHERENT SIGNALS (180° OUT-OF-PHASE) | 16 X 0.125 WATTS |
| NON-COHERENT SIGNALS                 | 16 X 0.25WATTS   |
| OTHER CONDITIONS - CONSULT FACTORY   |                  |



**16-way, GPS signal splitter; DC pass 1 port, DC block 15 ports w/200Ω loads. Typically used for powering an active antenna thru pass ports while splitting GPS signal 16 ways.**

| REV | DESCRIPTION | BY | DATE |
|-----|-------------|----|------|
|     |             |    |      |

| TOLERANCES    |               |
|---------------|---------------|
| INCHES        | MILLIMETERS   |
| .00 = ±.01    | .0 = ±.25     |
| .000 = ±.004  | .00 = ±.10    |
| DRAWN: MJD    | APPROVED: EMM |
| DATE: 6/12/09 | DATE: 6/12/09 |



|           |  |
|-----------|--|
| MODEL NO. | <b>GPS161</b>  |
| TITLE     | GPS SPLITTER, 16 WAY, SMA FEMALE, 1 - 2 GHz, 20 WATTS, RoHS, DC BLOCK 15 PORTS, WITH 200Ω INTERNAL LOADS |