

ELECTRICAL SPECIFICATIONS:

- 1.) FREQUENCY RANGE: 1000 - 2000 MHz
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 1.0 dB (ABOVE 9.03 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.5 dB
- 5.) PHASE BALANCE (MAX): 5 DEGREES
- 6.) ISOLATION (MIN): 22 dB
- 7.) INPUT VSWR (MAX): 1.45 : 1
- 8.) OUTPUT VSWR (MAX): 1.20 : 1
- 9.) DC VOLTAGE (MAX): 10 V
- 10.) DC CURRENT (MAX): 50 mA

MECHANICAL SPECIFICATIONS:

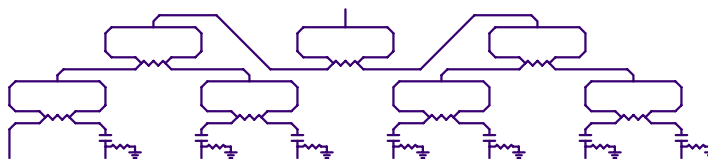
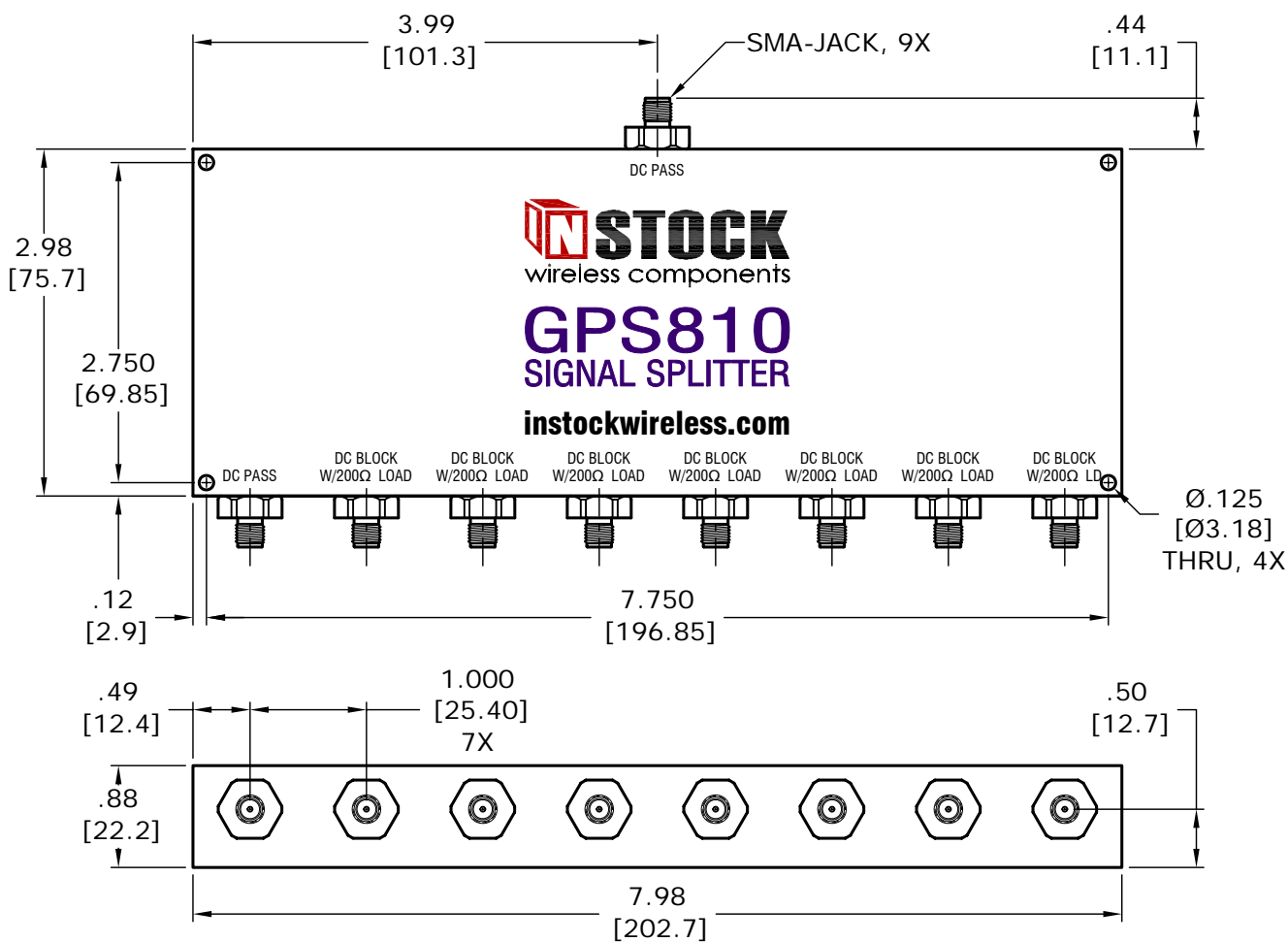
- 1.) CONNECTORS: SMA FEMALE (JACK), 50 OHM
- 2.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- 3.) CONNECTOR PIN: BERYLLIUM COPPER, GOLD PLATE
- 4.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 5.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 6.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 7.) OPERATING TEMP: -65°C TO +85°C
- 8.) WEIGHT: 740 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) | 8 X 2.5 WATTS |
| COHERENT SIGNALS (180° OUT-OF-PHASE) | 8 X 0.25 WATTS |
| NON-COHERENT SIGNALS | 8 X 0.5 WATTS |
| OTHER CONDITIONS - CONSULT FACTORY | |



8-way, GPS signal splitter; DC pass 1 port, DC block 7 ports w/200Ω loads. Typically used for powering an active antenna thru pass ports while splitting GPS signal 8 ways.

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

| TOLERANCES | |
|----------------|----------------|
| INCHES | MILLIMETERS |
| .00 = ±.01 | .0 = ±.25 |
| .000 = ±.004 | .00 = ±.10 |
| DRAWN: MJD | APPROVED: EMM |
| DATE: 07/08/08 | DATE: 07/08/08 |



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| MODEL NO. | GPS810 |
| TITLE | GPS SPLITTER, 8 WAY, SMA FEMALE, 1 - 2 GHz, 20 WATTS, RoHS, DC BLOCK 7 PORTS, WITH 200Ω INTERNAL LOADS |