

**ELECTRICAL SPECIFICATIONS:**

- 1.) FREQUENCY RANGE: GPS L1-L5 (1176.45 - 1602.00 MHz)
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 0.3 dB (ABOVE 3.01 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.1 dB
- 5.) PHASE BALANCE (MAX): 2 DEGREES
- 6.) ISOLATION (MIN): 18 dB
- 7.) INPUT VSWR (MAX): 1.25 : 1
- 8.) OUTPUT VSWR (MAX): 1.15 : 1
- 9.) DC VOLTAGE (MAX): 50 V

**MECHANICAL SPECIFICATIONS:**

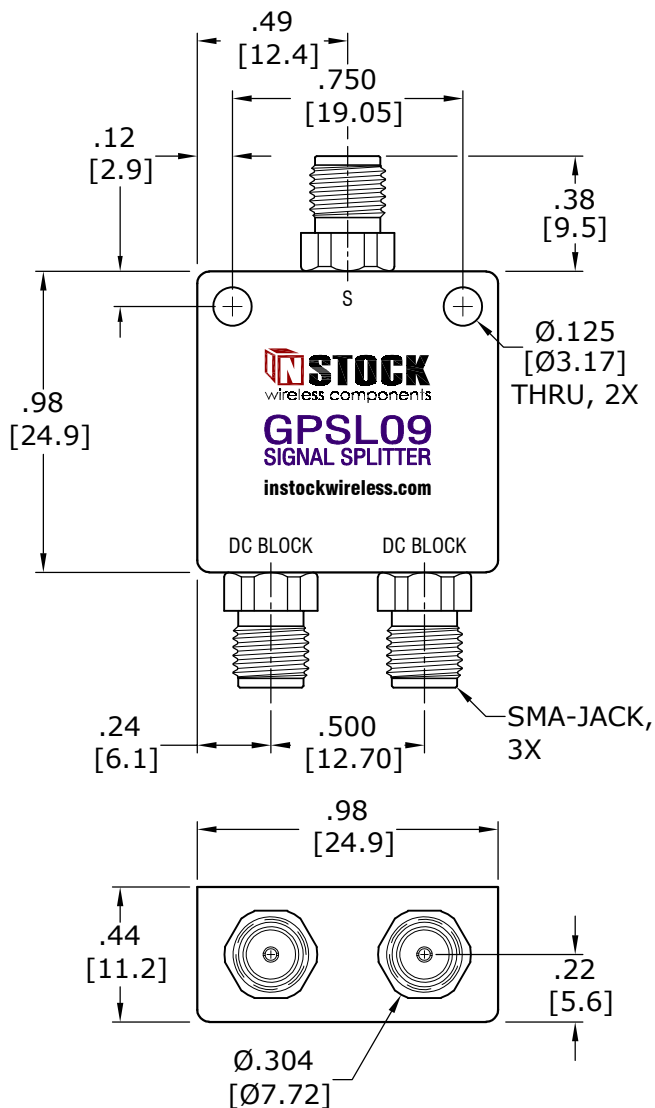
- 1.) CONNECTORS: SMA FEMALE (JACK), 50 OHM
- A.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- B.) CONNECTOR PIN: BERYLLIUM COPPER, GOLD PLATE
- C.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 2.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 3.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 4.) OPERATING TEMP: -65°C TO +85°C
- 5.) WEIGHT: 21 GRAMS

**GPS INPUT POWER RATING (GPS DIVIDER SPLITTER):**

| INTO MATCHED LOAD VSWR's | IN-PHASE | 180° OUT-OF-PHASE |
|--------------------------|----------|-------------------|
| 1.2 : 1                  | 10 WATTS | 10 WATTS          |
| 2.0 : 1                  | 10 WATTS | 2.5 WATTS         |
| ∞                        | 5 WATTS  | 0.25 WATTS        |

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

|                                      |                 |
|--------------------------------------|-----------------|
| COHERENT SIGNALS (IN-PHASE)          | 2 X 5 WATTS     |
| COHERENT SIGNALS (180° OUT-OF-PHASE) | 2 X 0.125 WATTS |
| NON-COHERENT SIGNALS                 | 2 X 0.25 WATTS  |
| OTHER CONDITIONS - CONSULT FACTORY   |                 |



**2-way, passive GPS antenna splitter combiner; DC block two (2) ports. Typically used in combining applications to prevent passing DC to sum or adjacent ports.**

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

| TOLERANCES     |                |
|----------------|----------------|
| INCHES         | MILLIMETERS    |
| .00 = ±.01     | .0 = ±.25      |
| .000 = ±.004   | .00 = ±.10     |
| DRAWN: KMG     | APPROVED: MJD  |
| DATE: 10/20/17 | DATE: 10/20/17 |



|           |  |
|-----------|--|
| MODEL NO. | <b>GPSL09</b>  |
| TITLE     | GPS DC BLOCK SPLITTER COMBINER, 2 WAY, SMA JACK, 50 Ω, (GPSL1-L5 1176.45 -1602 MHz), 0°, 10W, RoHS |