

ELECTRICAL SPECIFICATIONS:

- 1.) FREQUENCY RANGE: 0.7 - 2.7 GHz
- 2.) IMPEDANCE: 50 OHMS
- 3.) INSERTION LOSS (MAX): 0.8 dB (ABOVE 6.02 dB SPLIT)
- 4.) AMPLITUDE BALANCE (MAX): 0.3 dB
- 5.) PHASE BALANCE (MAX): 4 DEGREES
- 6.) ISOLATION (MIN): 22 dB
- 7.) INPUT VSWR (MAX): 1.30 : 1
- 8.) OUTPUT VSWR (MAX): 1.15 : 1
- 9.) DC VOLTAGE (MAX): 50 VOLTS

MECHANICAL SPECIFICATIONS:

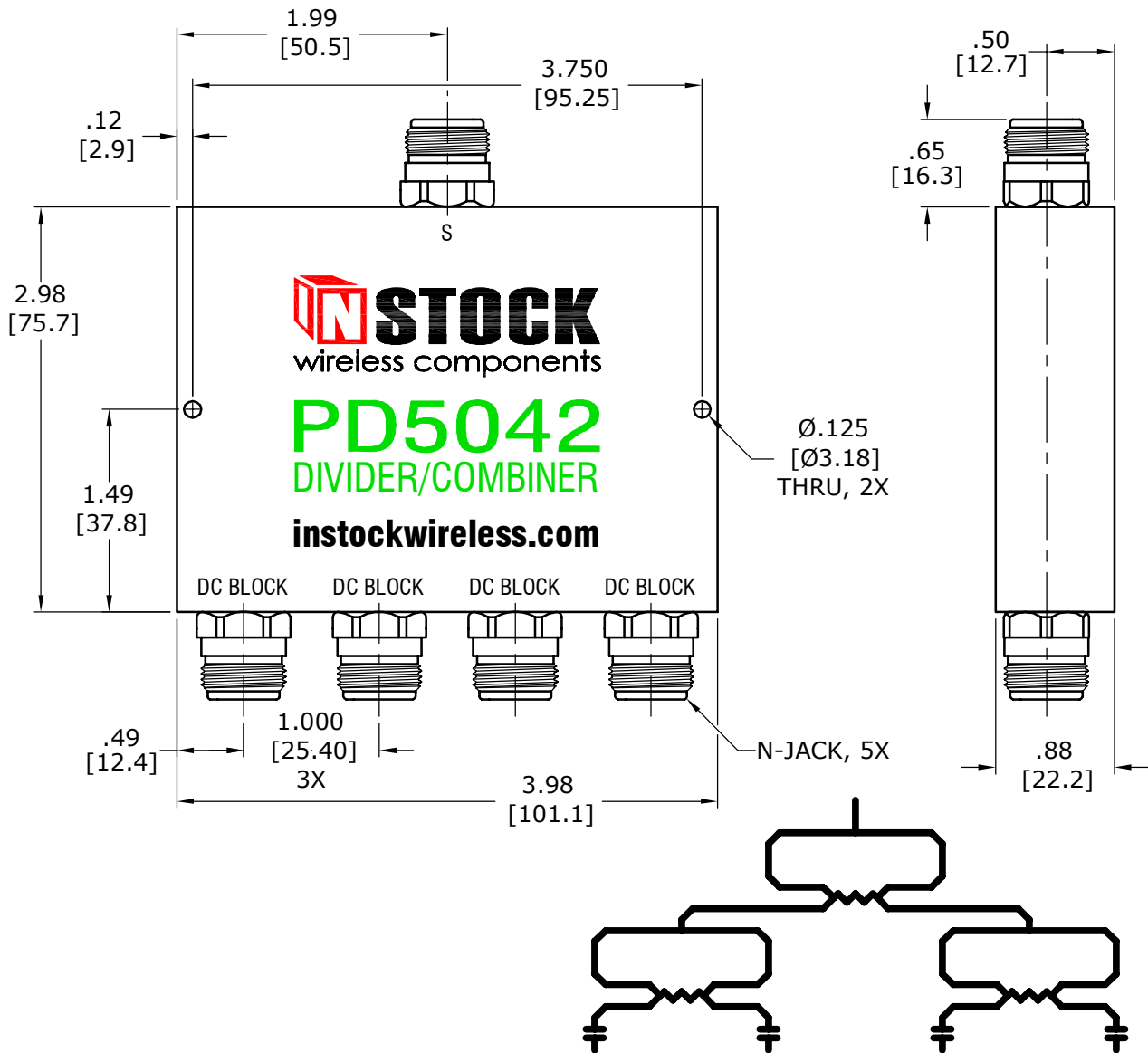
- 1.) CONNECTORS: TYPE-N FEMALE (JACK), 50 OHM
- 2.) CONNECTOR BODY: BRASS, TRI-ALLOY PLATE
- 3.) CONNECTOR PIN: PHOSPHOR BRONZE, GOLD PLATE
- 4.) INSULATOR: PTFE, VIRGIN ELECTRICAL GRADE
- 5.) HOUSING: ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
- 6.) SOLDER: LEAD FREE, RoHS COMPLIANT
- 7.) OPERATING TEMP: -65°C TO +85°C
- 8.) WEIGHT: 452 GRAMS

INPUT POWER RATING (POWER DIVIDER SPLITTER):

| INTO MATCHED LOAD VSWR's | IN-PHASE | 180° OUT-OF-PHASE |
|--------------------------|----------|-------------------|
| 1.2 : 1 | 40 WATTS | 40 WATTS |
| 2.0 : 1 | 40 WATTS | 20 WATTS |
| ∞ | 20 WATTS | 2 WATTS |

INPUT POWER RATING (POWER COMBINER):

| | |
|--------------------------------------|---------------|
| COHERENT SIGNALS (IN-PHASE) | 4 X 10 WATTS |
| COHERENT SIGNALS (180° OUT-OF-PHASE) | 4 X 0.5 WATTS |
| NON-COHERENT SIGNALS | 4 X 1 WATT |
| OTHER CONDITIONS - CONSULT FACTORY | |



4-way, DC blocking power combiner; DC block input ports. Typically used to prevent passing DC current in combining applications to sum or other inputs.

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

| TOLERANCES | |
|----------------|----------------|
| INCHES | MILLIMETERS |
| .00 = ±.01 | .0 = ±.25 |
| .000 = ±.004 | .00 = ±.10 |
| DRAWN: MJD | APPROVED: EMM |
| DATE: 12/18/07 | DATE: 12/18/07 |

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|-----------|--|
| MODEL NO. | PD5042 |
| TITLE | DC BLOCKING POWER COMBINER, 4 WAY, N-TYPE JACK, 0.7 - 2.7 GHz, 40 WATT, RoHS. DC BLOCK INPUTS. |