

POWER SPLITTER/COMBINER

2-WAY, 0°, 1000-2000 MHz , DC PASS ONE PORT

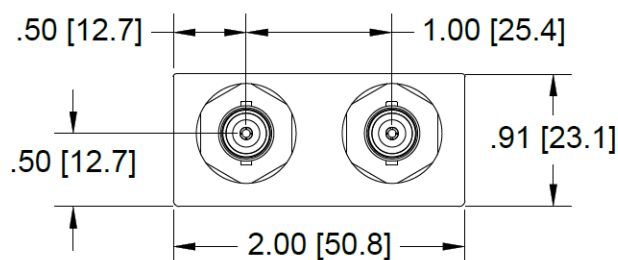
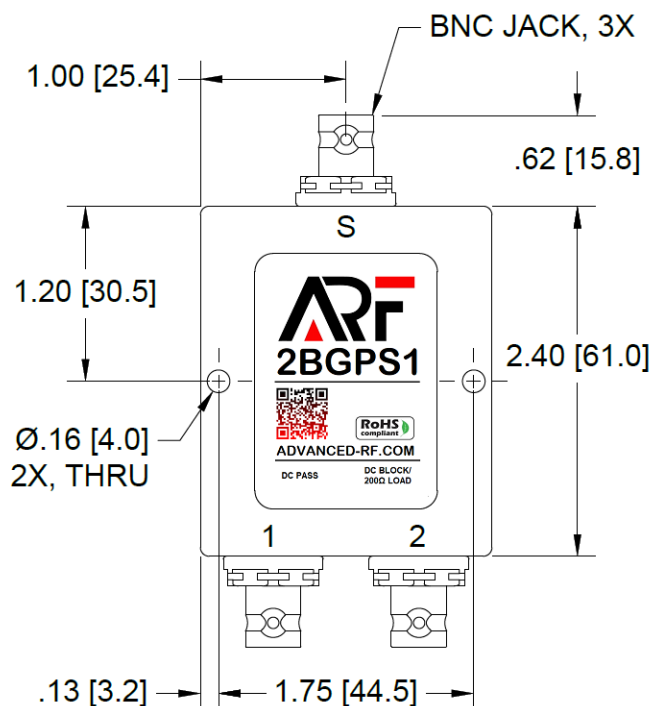
MODEL 2BGPS1

FEATURES

- 1000-2000 MHz
- GNSS (GPS, GALILEO, GLONASS, ETC)
- ONE (1) PORT BLOCK DC W/200Ω INTERNAL LOAD
- HIGH ISOLATION (>25 dB AVG)

APPLICATIONS

- GNSS/L-BAND
- GPS (US)
- GLONASS (RU)
- IRNSS (IN)
- GALILEO (EU)
- BEIDOU (CN)
- QZSS (JP)
- POWER REMOTE ANTENNA



OUTLINE DIMENSIONS: INCH [MM]

ELECTRICAL

FREQUENCY (MHz)	1000 - 2000
IMPEDANCE	50 Ω
INSERTION LOSS (dB)	0.5 MAX (ABOVE -3.01 dB SPLIT)
AMPLITUDE BALANCE (dB)	0.2 MAX
PHASE BALANCE (DEG)	4 MAX
ISOLATION (dB)	22 MIN
VSWR (PORT S)	1.30:1 MAX
VSWR (PORT 1,2)	1.25:1 MAX
RF POWER (WATTS)	50 ^{1,2} (SPLITTER)

	DC PASS	DC BLOCK
VDC (VOLTS) MAX	50	15
DC CURRENT (mA) MAX	1500	75

1) ALL OUTPUT PORTS MUST TERMINATE 50 OHM (LOAD VSWR 1.20:1 OR BETTER).

2) AS COMBINER OF NON-COHERENT SIGNALS, MAX INPUT POWER IS 1.0W PER PORT.



MECHANICAL

CONNECTORS	BNC JACK, BRASS, TRI-ALLOY PLATE
CONTACT PINS	BERYLLIUM COPPER, GOLD PLATE
HOUSING	ALUMINUM, CHEMICAL FILM
INSULATOR	PTFE, VIRGIN ELECTRICAL GRADE
TEMPERATURE	-55°C TO +85°C
WEIGHT	171 GRAMS

AdvancedRF power splitter/combiner model 2BGPS1 is a superior microstrip Wilkinson power divider circuit covering all Global Navigation Satellite System (GNSS) frequency bands. The 2BGPS1 has an integrated DC block and 200Ω load on one output port. This unique feature of the splitter may be necessary when powering an antenna through one port and sharing the signal with multiple receivers. Using only a DC block may cause the receiver to detect a antenna fault (no load) and not operate as intended. The 200Ω internal load solves this issue and draws the necessary current for error free operation. Circuit is tuned to maintain a perfect match for RF Tx/Rx signals. All Advanced RF splitters/combiners can be easily installed in our 1U-5U rack panels - providing flexible configuration options. RoHS compliant.

AdvancedRF