

POWER SPLITTER/COMBINER

6-WAY, 0°, 1000-2000 MHz, DC BLOCK/LOAD ALL PORTS

MODEL W6SGPS2

WEATHERPROOF

FEATURES

- WEATHERPROOF (IP67)
- GNSS (GPS, GALILEO, GLONASS, ETC)
- SIX (6) PORTS BLOCK DC W/200Ω INTERNAL LOAD
- HIGH ISOLATION (>25 dB AVG)

APPLICATIONS

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

ELECTRICAL

FREQUENCY (MHz)	1000 - 2000
IMPEDANCE	50 Ω
INSERTION LOSS (dB)	1.0 MAX (ABOVE -7.78 dB SPLIT)
AMPLITUDE BALANCE (dB)	0.4 MAX
PHASE BALANCE (DEG)	6 MAX
ISOLATION (dB)	20 MIN
VSWR (PORT S)	1.45:1 MAX
VSWR (PORT 1-6)	1.25:1 MAX
VDC (VOLTS)	15 MAX
DC CURRENT (mA)	75 MAX

RF POWER RATING (WATTS)

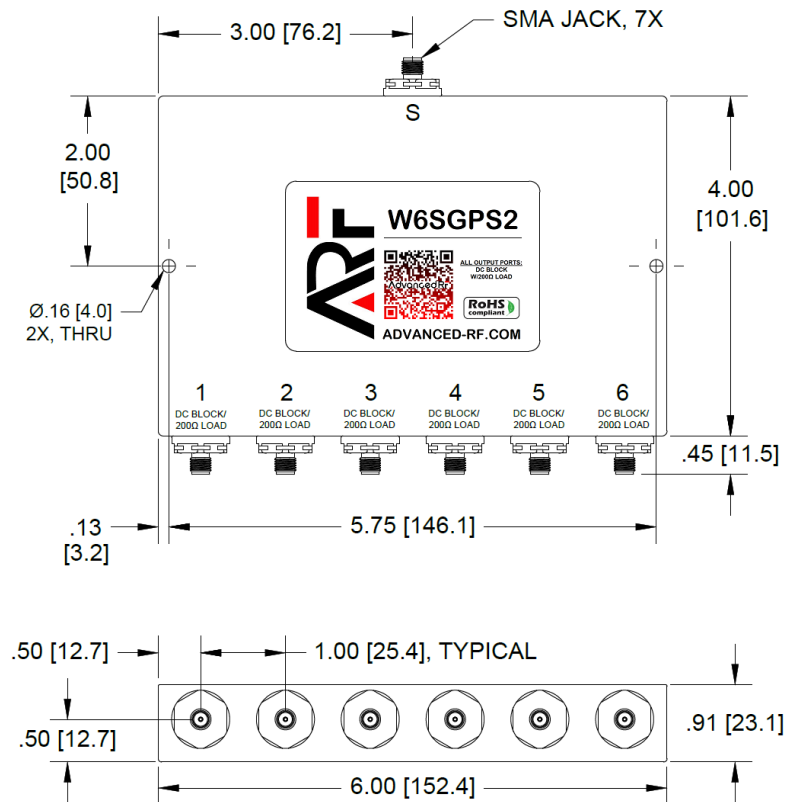
AS SPLITTER¹

50

AS COMBINER²

1.0

- 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 PER PORT.



OUTLINE DIMENSIONS: INCH [MM]



MECHANICAL

CONNECTORS	SMA JACK, BRASS, TRI-ALLOY PLATE
CONTACT PINS	BERYLLIUM COPPER, GOLD PLATE
HOUSING	ALUMINUM, CHEMICAL FILM
INSULATOR	PTFE, VIRGIN ELECTRICAL GRADE
O-RING/GASKET	SILICONE RUBBER
TEMPERATURE	-55°C TO +85°C
WEIGHT	661 GRAMS

AdvancedRF weatherproof (IP67) power splitter/combiner model W6SGPS2 is a superior 6-way microstrip Wilkinson power divider covering all Global Navigation Satellite System (GNSS) frequency bands with an integrated DC block and 200Ω load on all six output ports. This unique feature of the splitter may be necessary when validating multiple receiver performance in a testing environment and not connecting an active antenna. Using only a DC block can cause the receiver to detect a antenna fault. The 200Ω internal load solves this issue and draws the necessary current preventing receiver error. Circuit is tuned to maintain a perfect match for RF signal Tx/Rx. All Advanced RF splitters/combiners can be easily installed in our 1U-5U rack panels - providing flexible configuration options. RoHS compliant.

AdvancedRF