

POWER SPLITTER/COMBINER

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

MODEL 12SGPS2

FEATURES

- 1000-2000 MHz
- GNSS (GPS, GALILEO, GLONASS, ETC)
- TWELVE (12) PORTS BLOCK DC W/200Ω INTERNAL LOAD
- HIGH ISOLATION (>25 dB AVG)

APPLICATIONS

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

ELECTRICAL

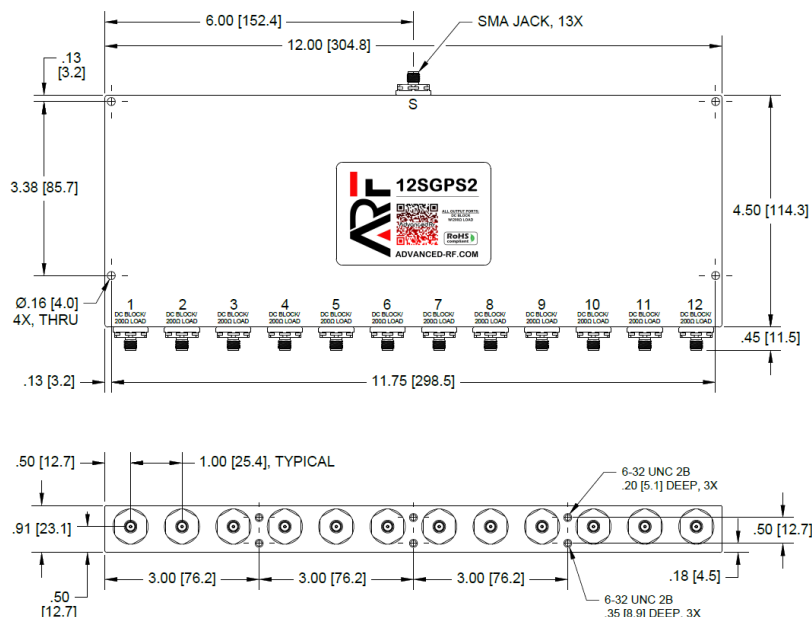
FREQUENCY (MHz)	1000 - 2000
IMPEDANCE	50 Ω
INSERTION LOSS (dB)	1.4 MAX (ABOVE -10.79 dB SPLIT)
AMPLITUDE BALANCE (dB)	0.4 MAX
PHASE BALANCE (DEG)	6 MAX
ISOLATION (dB)	20 MIN
VSWR (PORT S)	1.50:1 MAX
VSWR (PORT 1-12)	1.25:1 MAX
VDC (VOLTS)	15 MAX
DC CURRENT (mA)	75 MAX

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
TEMPERATURE	-55°C TO +85°C
WEIGHT	1411 GRAMS

AdvancedRf power splitter/combiner model 12SGPS2 is a superior microstrip Wilkinson power divider covering all Global Navigation Satellite System (GNSS) frequency bands with an integrated DC block and 200Ω load on all twelve 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 may 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 signals. Available for outdoor use as model W12SGPS2. All Advanced RF splitters/combiners can be easily installed in our 1U-5U rack panels - providing flexible configuration options. RoHS compliant.

AdvancedRf