

# POWER SPLITTER/COMBINER

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

# MODEL 16SGPS1

### FEATURES

- 1000-2000 MHz
- GNSS (GPS, GALILEO, GLONASS, ETC)
- FIFTEEN (15) PORTS BLOCK DC W/200Ω INTERNAL LOAD
- HIGH ISOLATION (>25 dB AVG)

### APPLICATIONS

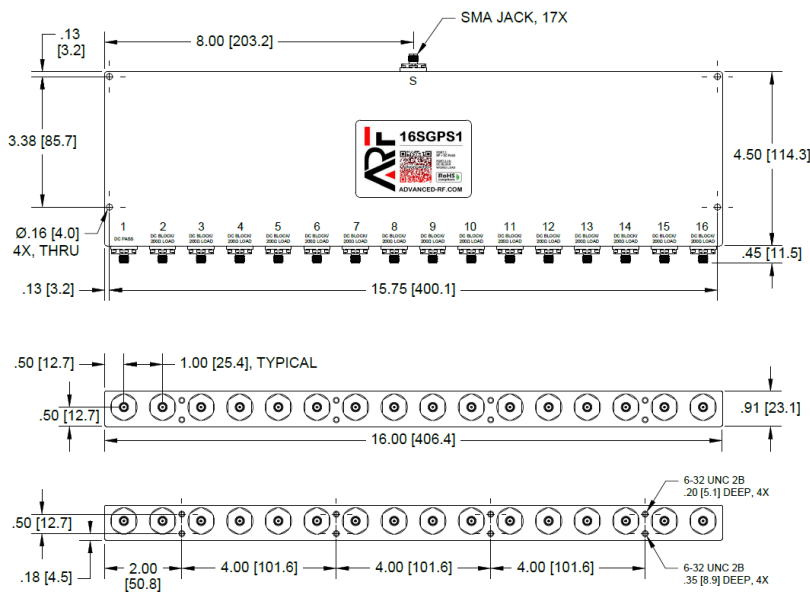
- GNSS/L-BAND
- GPS (US)
- GLONASS (RU)
- IRNSS (IN)
- GALILEO (EU)
- BEIDOU (CN)
- QZSS (JP)
- POWER REMOTE ANTENNA

### ELECTRICAL

FREQUENCY (MHz)	1000 - 2000
IMPEDANCE	50 Ω
INSERTION LOSS (dB)	1.3 MAX (ABOVE -12.04 dB SPLIT)
AMPLITUDE BALANCE (dB)	0.5 MAX
PHASE BALANCE (DEG)	6 MAX
ISOLATION (dB)	22 MIN
VSWR (PORT S)	1.50:1 MAX
VSWR (PORT 1-16)	1.20:1 MAX
RF POWER (WATTS)	50 <sup>1,2</sup> (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.



OUTLINE DIMENSIONS: INCH [MM]



### MECHANICAL

CONNECTORS	SMA JACK, BRASS, TRI-ALLOY PLATE
CONTACT PINS	BERYLLIUM COPPER, GOLD PLATE
HOUSING	ALUMINUM, CHEMICAL FILM
INSULATOR	PTFE, ELECTRICAL GRADE
TEMPERATURE	-55°C TO +85°C
WEIGHT	1880 GRAMS

**AdvancedRf** power splitter/combiner model 16SGPS1 is a superior microstrip Wilkinson power divider circuit covering all Global Navigation Satellite System (GNSS) frequency bands. The 16SGPS1 has an integrated DC block and 200Ω load on fifteen output ports. 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 an 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 signals. All Advanced Rf splitters/combiners can be easily installed in our 1U-5U rack panels - providing flexible configuration options. RoHS compliant.

# AdvancedRf