

Keysight 11636A
50 Ohm Type-N Power Divider
DC to 18 GHz

11636A Power Divider

Introduction

From DC to 18 GHz, the 11636A provides excellent output power symmetry between the two output ports. Low temperature and power coefficients ensure attenuation stability. Each power divider is calibrated at four frequencies, and this data is provided on a sticker that is permanently attached to the unit.

Stable interface dimensions, which ensure long life and a high repeatability of insertion loss, are provided by injection molded interface connector insulators that maintain concentricity.

Any port may be used as an input, as the 11636A provides a symmetrical 6 dB division. The 11636A can be used as a power combiner. When signals are input at two of the ports, the sum of the two appears at the third.

Specifications

Maximum Input Power: 1.0 W CW, 1 kW peak (5 msec pulse width)

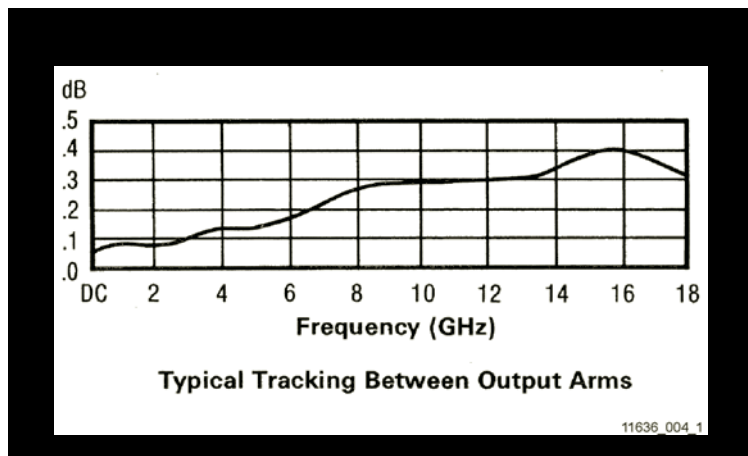
Frequency Range: DC to 18 GHz

Input/Output SWR:

- DC to 10.0 GHz: ≤ 1.25
- 10.0 GHz to 18 GHz: ≤ 1.35

Tracking Between Output Ports:

Frequency Range (GHz)	Tracking (dB)
DC to 4.0	0.2
4.0 to 10.0	0.4
10.0 to 18.0	0.5

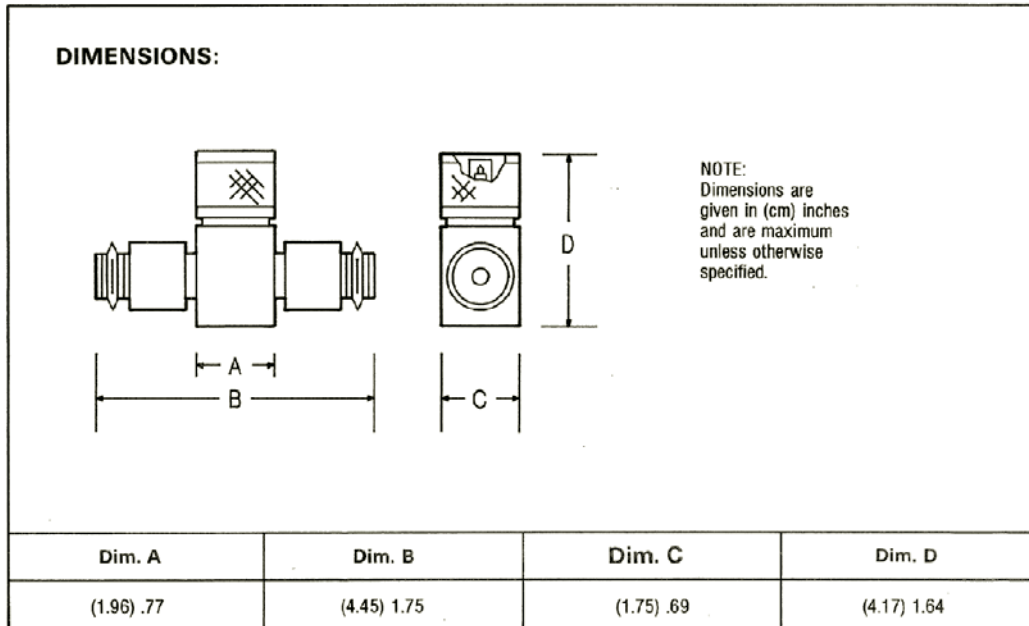


Calibration Data: Insertion loss at DC, 6.0, 12.0 and 18.0 GHz (data is supplied on a permanently attached sticker).

Number of Ports: Three

Connectors: One Type-N male, two Type-N female

Dimensions:



11636_004_2

Nominal Insertion Loss (Input to One Output Port): 6.0 dB (−0.2 dB, +1.2 dB maximum to 10.0 GHz; +1.5 dB maximum to 18.0 GHz)

Typical Phase Tracking: $\pm 2^\circ$ between output ports.

Power Coefficient: <0.005 dB/dB/W

Temperature Coefficient: <0.0004 dB/dB/°C