

JEM-0169

Broadband Vivaldi Antenna

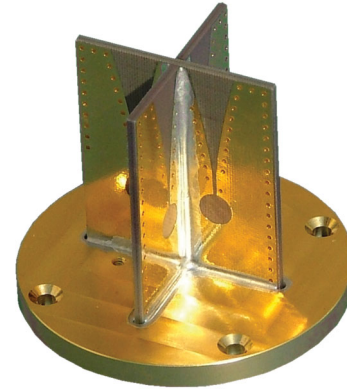
DESCRIPTION

The JEM-0169 is a flight-qualified, low-profile, dual-polarized Vivaldi antenna, which operates between 2 to 18 GHz.

The antenna is comprised of two coplanar horizontal and two coplanar vertical elements arranged into an array that is symmetric around its axis. These elements are driven with equal phase and amplitude excitation, allowing the antenna to achieve a broadside pattern.

In addition to providing high peak value for the pulse envelope during radar applications, this antenna is optimized for impedance matching.

JEM Engineering's Vivaldi antennas can be scaled for use at any frequency.



Broadband Vivaldi Antenna

SPECIFICATIONS

ELECTRICAL

Frequency Band	2 GHz to 18 GHz
VSWR	≤ 6.0 @ 2 GHz to 4 GHz
	≤ 3.0 @ 4 GHz to 6 GHz
	≤ 2.0 @ 6 GHz to 16.5 GHz
	≤ 3.0 @ 16.5 GHz to 18 GHz
Polarization	Dual Linear
Boresight Gain	> 6 dBi @ 6.0 to 18.0 GHz
Connector	SMA Jack

ENVIRONMENTAL

Max Altitude	15,000 ft
Operational Temp.	-40°F to +131°F (-40°C to +55°C)

MECHANICAL

Weight	2 oz (56.7 g)
Dimensions	2.25" Diameter x 1.83" H (5.72 cm Diameter x 4.64 cm H)
Mounting	Available Upon Request
Finish (Default)	Gold-Plating