



# Models 1537RA, 1538RA, & 1540RA Directional Couplers

**0.5 to 4.0 GHz**



**SMA Female Connectors**



This series of directional couplers feature high directivity and low SWR and are conservatively rated to ensure the most reliable service and performance under severe environmental conditions. These designs are ideal for lab applications, internal leveling, ECM Systems, communication satellites, RF and microwave test equipment, and wireless applications. Other features include:

- /// **Selection of Coupling Factors:** 6, 10, 20, & 30 dB
- /// **Female SMA Connectors:** Rugged 4 hole connector construction insures mechanical superiority
- /// **Temperature Range:** -55°C to +85°C
- /// **Active and Multi-active Models**

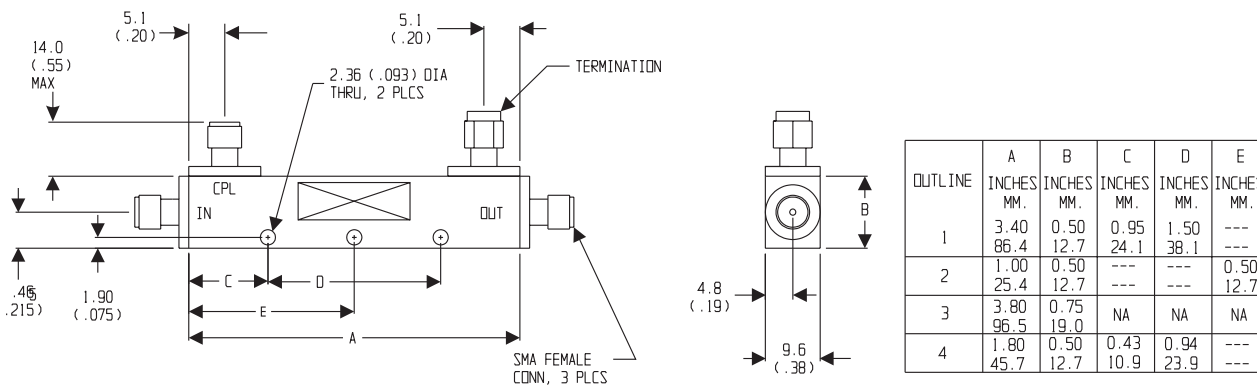
## Specifications

Model Number	Frequency Range (GHz)	Coupling (dB)*	Frequency Flatness* (dB)	Minimum Directivity (dB)	Maximum SWR	Maximum Insertion Loss above Coupling Loss (dB)	Maximum Peak** Power (kW)	Maximum Average** Power (W)	Outline (See Below)
1537RA-10 1537RA-20	2.0-4.0 2.0-4.0	10±1.20 20±1.20	±0.75 ±0.75	20 20	1.25 1.25	0.25 0.25	3 3	40 40	2 2
1538RA-6 1538RA-10 1538RA-20 1538RA-30	0.5-2.0 0.5-2.0 0.5-2.0 0.5-2.0	6±1.20 10±1.25 20±1.25 30±1.25	±1.0 ±1.00 ±1.00 ±1.00	18 20 20 18	1.25 1.25 1.25 1.25	0.30 0.25 0.25 0.25	3 3 3 3	50 50 50 50	1 1 1 1
1540RA-20	1.0-4.0	20±1.25	±0.75	20	1.25	0.50	3	50	3

\* Coupling includes frequency flatness. Coupling measurement is referenced to the Input Port.

\*\* Peak and average power handling capability only apply if the main line is terminated in a 1.25 maximum SWR for 10 dB models and 1.75 for 20 and 30 dB models.

## Physical Dimensions



NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.