

Antenna Information

The Boston Scientific EMBLEM Pulse Generator, Model A209, incorporates a permanently attached/integrated antenna encased in plastic. Access of the antenna connection to the intentional radiator is prohibited by the model enclosure. The factory installed antenna is the only antenna approved for use in the Model Pulse Generator. The antenna is a custom stamped metal loop located above the curved metal housing. The antenna is integrated with the device header and is attached to the intentional radiator via an integral feed-thru assembly.

The maximum antenna gain is -28 dBi. Transmit power at the hybrid level has been measured as -17.5 dBm from test report BST0488. The mismatch loss due to hybrid impedance is approximately 5 dB. The maximum antenna gain is verified by comparing the measured -40.5 dBm EIRP from test report BSTN0488 with the hybrid transmit power: $-12.5 \text{ dBm} - 28 \text{ dBi} = -40.5 \text{ dBm}$.

The measured 3dB beam width is 82.4 degrees, as shown in the figure below. Design drawings showing the location and structure of the antenna accompany this application.

