

PA-868-01

868 MHz Patch Antenna Datasheet



DESCRIPTION

Powercast's PA-868-01 antenna is a patch antenna designed to work in the UHF RF range. It has linear polarization and a directional radiation pattern. The SMA connector makes it ideal when testing with development kits that need UHF RF energy, specifically RFID and energy harvesting.

ANTENNA PARAMETERS

Parameter	Specification
Frequency Range	863 – 870 MHz
Peak Gain	4.75 (6.77 dBi)
Return Loss	< -10dB (863 – 873 MHz)
Impedance	50 ohms
Radiation Pattern	Single broadside lobe
Half-Power Beamwidth	118° Vertical (widthwise) 65° Horizontal (lengthwise)
Polarization	Linear – Horizontal (lengthwise)
VSWR	< 2:1 (862 - 874 MHz)
Connector	SMA



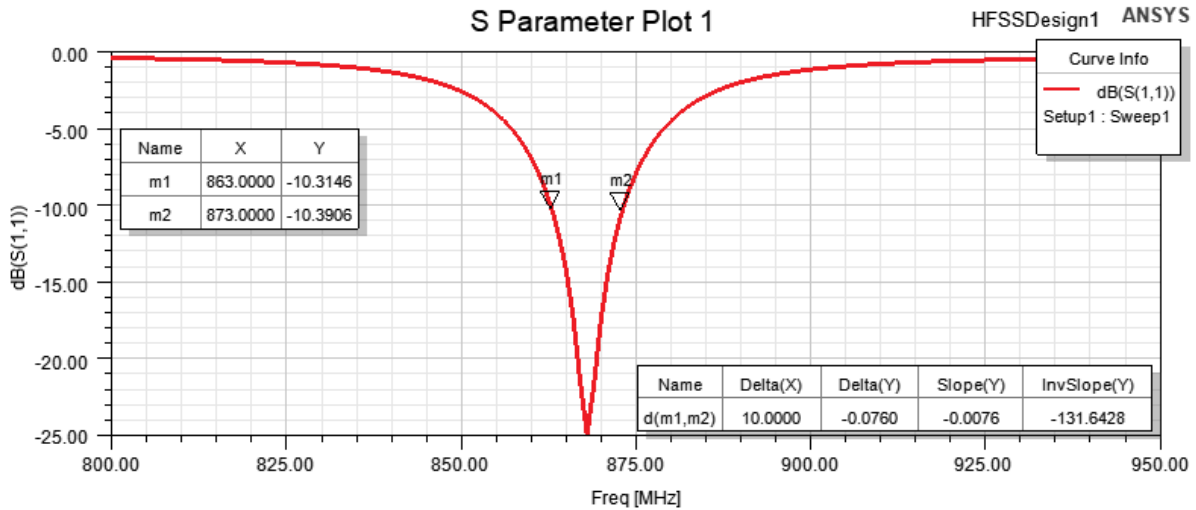
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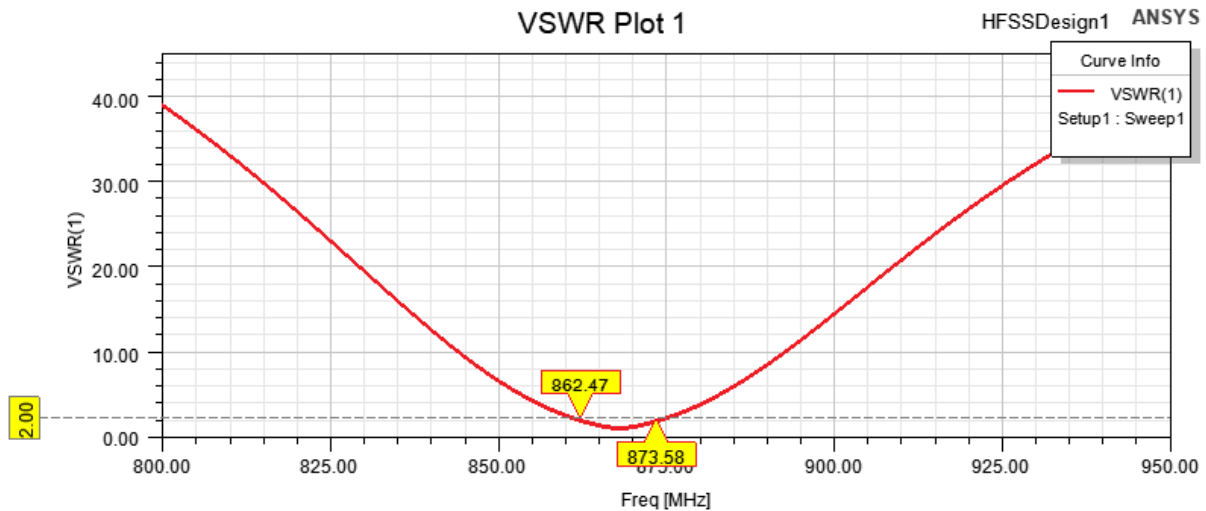
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RETURN LOSS



VSWR



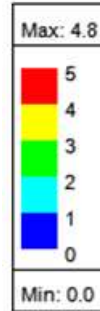
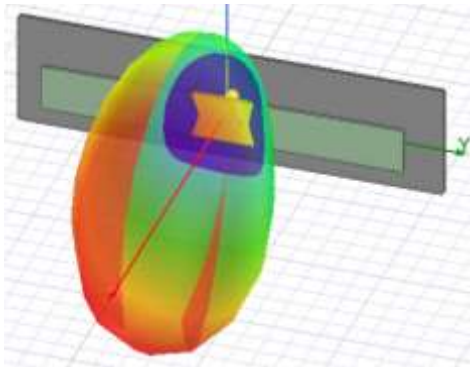
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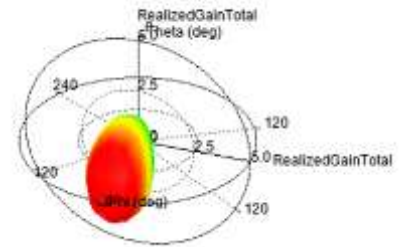


RADIATION PATTERN, LINEAR

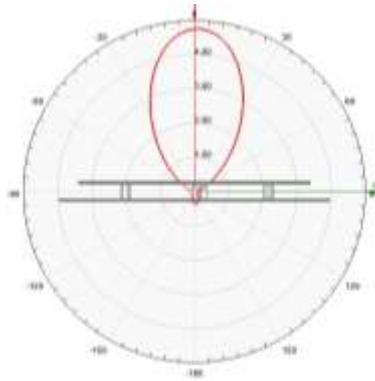
Radiation Pattern



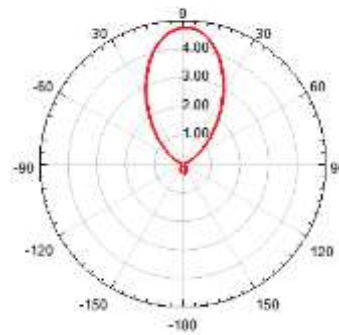
Realized Gain Plot 1



Front Radiation Pattern



Realized Gain Plot 2

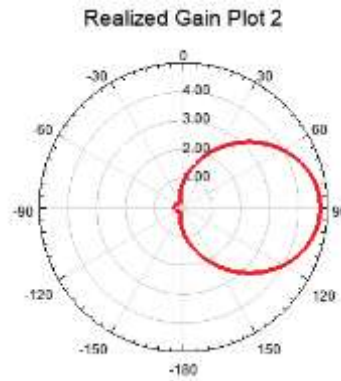
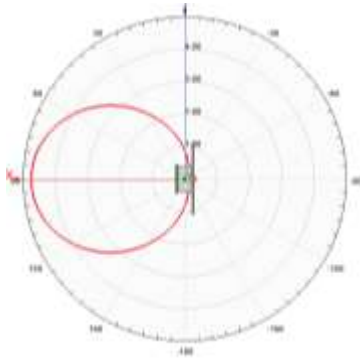


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Side Radiation Pattern



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