

2.4GHz Loop Chip Antenna

**AANI-CH-0070**

Request Samples



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1.0 x 0.5 x 0.4 mm
RoHS/RoHS II Compliant
MSL Level = 1

Electrical Specification

Parameter	Specification	Unit
Operating Frequency	2400 - 2500	MHz
Return Loss	≤ -7.2	dB
VSWR	≤ 2.5	:1
Polarization	Linear	-
Peak Gain	2.8	dBi
Minimum Total Efficiency	-1.8 (66)	dB (%)
Average Total Efficiency	-1.6 (70)	dB (%)
Maximum Total Efficiency	-1.4 (72)	dB (%)
Impedance	50	Ω
Radiation Pattern	Omni-directional	-
Input Power	≤ 2.0	W

Note: All measurements were performed using the evaluation board in a free-space environment. Actual performance may vary depending on factors such as the ground plane, specific application, and surrounding environment.

Mechanical Specification

Parameter	Specification
Antenna Dimension	1.0 x 0.5 x 0.4 mm
Evaluation board Dimension	44 x 19 mm
Recommended Ground Clearance for Antenna	4.6 x 3.5 mm
Mounting Type	Surface Mount
Mounting Location	PCB Edge Mounting
Material(s)	Ceramic

Environmental Specification

Parameter	Specification
Operating and Storage Temperature (individual chip without packing)	-40°C ~ +85°C
Packaging Storage Temperature	-10°C ~ +40°C
Packaging Storage Relative Humidity	70% (Max.)

Ordering Information

Part Number	Description
AANI-CH-0070	Antenna Component on Cut Tape
AANI-CH-0070-T	Antenna Component on Tape & Reel
AANI-CH-0070-EVB	Evaluation Kit



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