

PCB Trace Antenna – Lanyard – ANT 2 (2.4GHz)

V1.0

1. Index

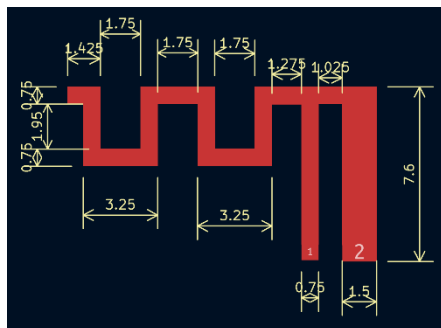
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Document Type: PCB Trace Antenna – Lanyard – ANT 1 (2.4GHz)
Document Version: V1.0
Release Date: August 12, 2026
Manufacturer:
Address:

2. Specification

Product Number: PCB Trace Antenna - Lanyard – ANT 2 (2.4GHz)

Sample Photo:



A. Electrical Characteristics

Frequency	2.4GHz
S.W.R.	≤ 1.42
Gain	3.33 dBi max.
Efficiency	83.56 %
Polarization	Linear
Impedance	50 Ω

B. Material & Mechanical Characteristics

Material of Radiator	1 oz copper trace on FR-4 ($\epsilon_r \approx 4.5$), HASL / ENIG finish
Cable Type / Length	N/A – direct 50 Ω microstrip feed on host PCB
Connector Type	N/A – integrated PCB trace

C. Environmental

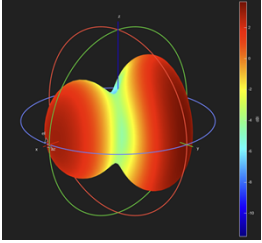
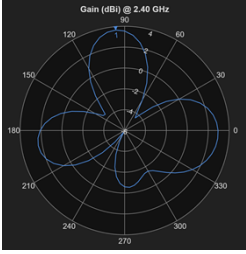
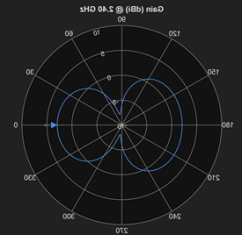
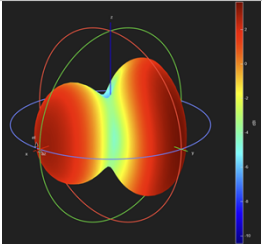
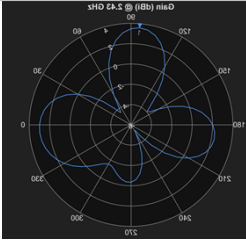
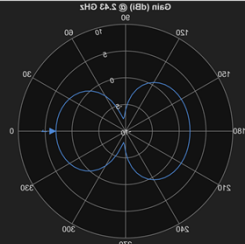
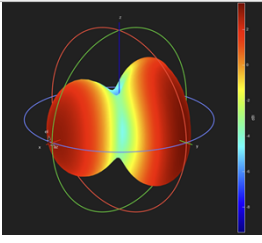
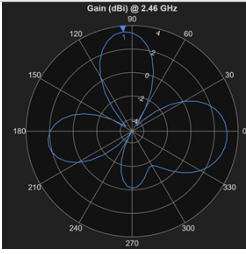
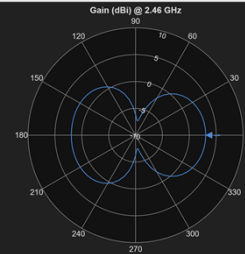
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C

3. Return Loss



4. Radiation Pattern

Tuned Antenna

Frequency	Efficiency (%)	Efficiency (dB)	Gain (dBi)	3D Pattern	AZ Pattern	EL Pattern
2.40G	83.56	-0.78	3.33			
2.43G	84.09	-0.75	3.17			
2.46G	83.71	-0.77	3.27			
2.48G	77.69	-1.10	3.05	