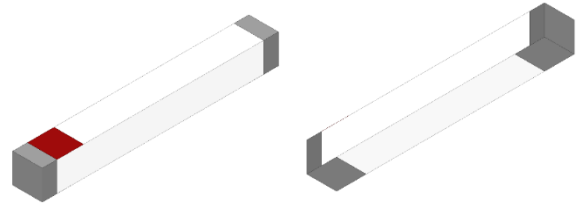


2.6 GHz Wideband RF Chip Antenna

- 2.3 – 2.9 GHz Operational frequency
- Bluetooth, WLAN, Zigbee, ISM and more
- SMD, 8.0x1.0x1.0mm (LxWxT)
- End mount
- RoHS compliant

Johanson Technology, Inc. (JTI) miniature RF ceramic chip antennas are made using Low Temperature Co-fired Ceramic (LTCC) technology which has the ability to embed low and high dielectric constants inside our antenna. This enables our components to have high detuning resilience and stability over extreme temperatures (~2ppm).



Recommended mounting locations for this antenna



General Specifications^{1 2}

Passband Frequency (MHz)	2300 – 2900
Impedance (Ω)	50
Return Loss (dB)	9.5 Min.
Peak Gain (dBi)	2.0 Typ.
Average Gain (dBi)	0.0 Typ.

Maximum Ratings

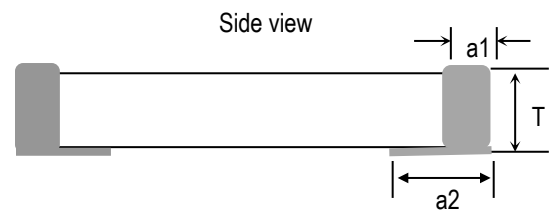
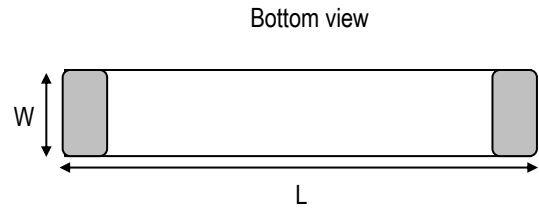
Power Capacity (W)	3 Max. (CW)
Operating Temperature ($^{\circ}\text{C}$)	-40 to +85
Recommended Storage Conditions post-installation ($^{\circ}\text{C}$)	-40 to +85
Recommended Storage Conditions and Period for Unused T&R Product	45% - 75% RH +5 to +35 $^{\circ}\text{C}$ 18 Months Max.

¹ Typical value represents average measurement at 25 $^{\circ}\text{C}$. Min./Max. values represent measurements over specified operating temperature.

² General specifications measured on Johanson's evaluation board P/Ns 2600AT44A0600001CE1.

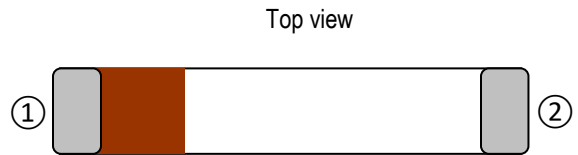
Mechanical Dimensions

	Inches			Millimeters		
L	0.315	±	0.008	8.00	±	0.20
W	0.039	±	0.008	1.00	±	0.20
T	0.039	±	0.008	1.00	±	0.20
a1	0.020	±	0.008	0.50	±	0.20
a2	0.039	±	0.008	1.00	±	0.20



Terminal Configuration³

Pin Number	Function
1	Feed
2	NC*

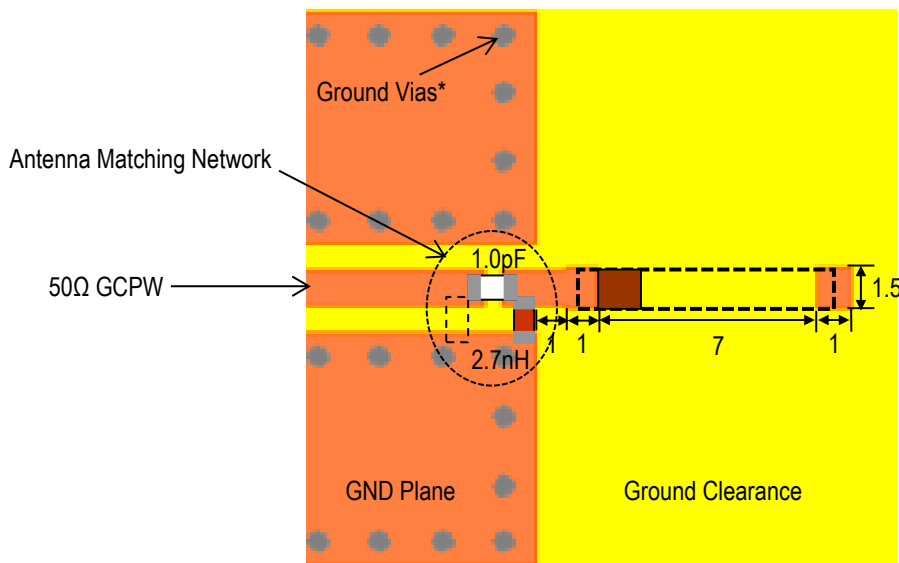
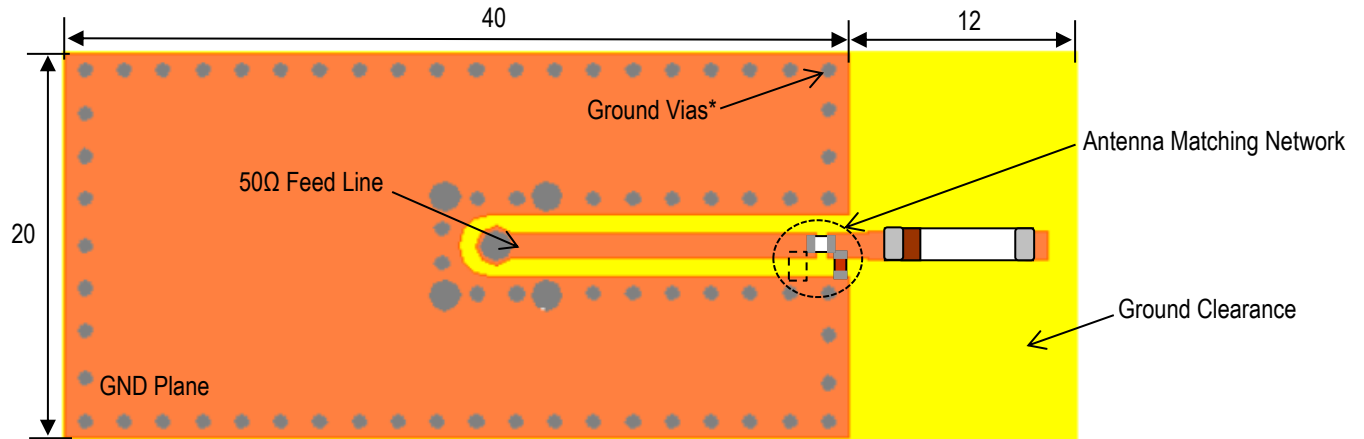


³ The termination type is Nickel Tin. Go to: <https://www.johansontechnology.com/ipcsoldering-profile> for Typical Soldering Profile.

* This terminal must be soldered for anchoring and mechanical stability.

Evaluation Board and Recommended Mounting Configuration 1 (P/N 2500AT44M0400001CE1)

All units in mm



JTI P/N's for Matching Network⁴

Inductor (2.7nH): LRC0402CS2N7GV001T

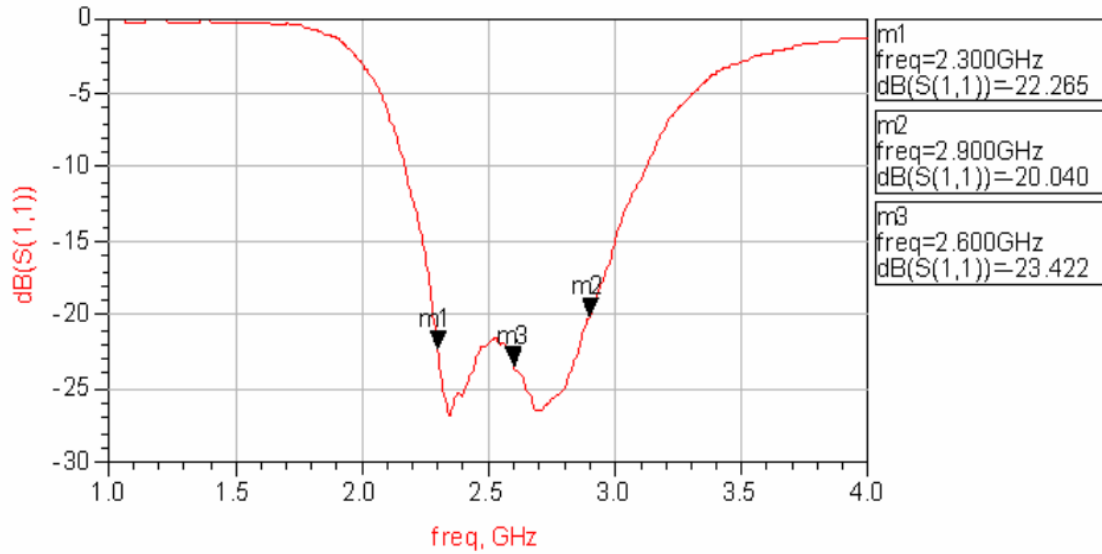
Capacitor (1.0pF): QSCF500Q1R0B1GV001T

*Note: Ground Vias are highly recommended to have better antenna efficiency.

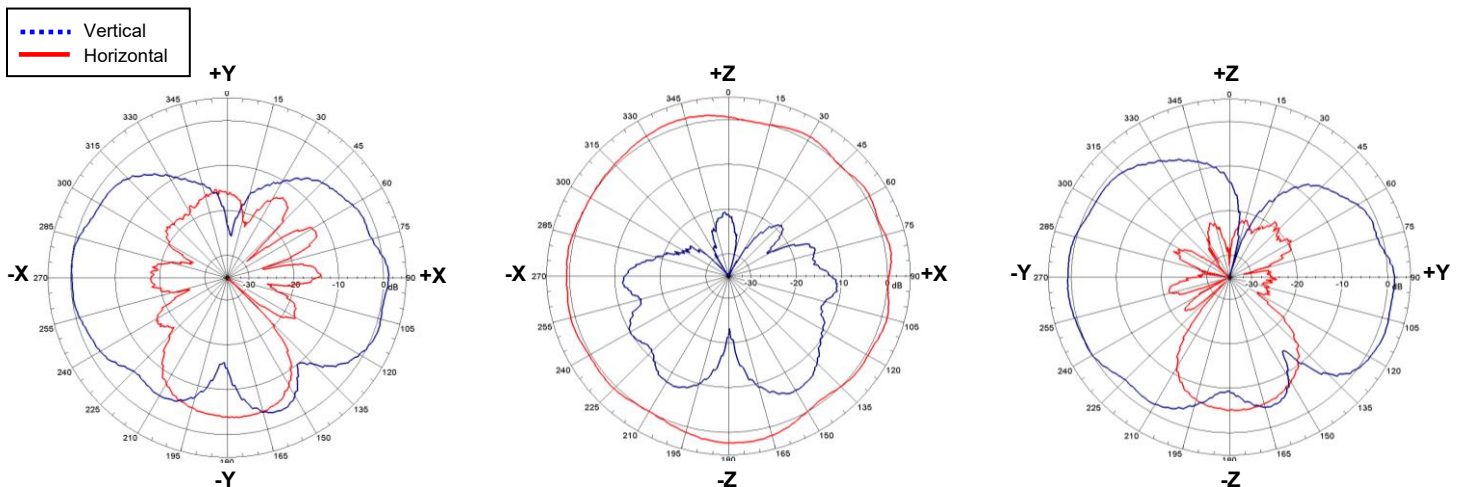
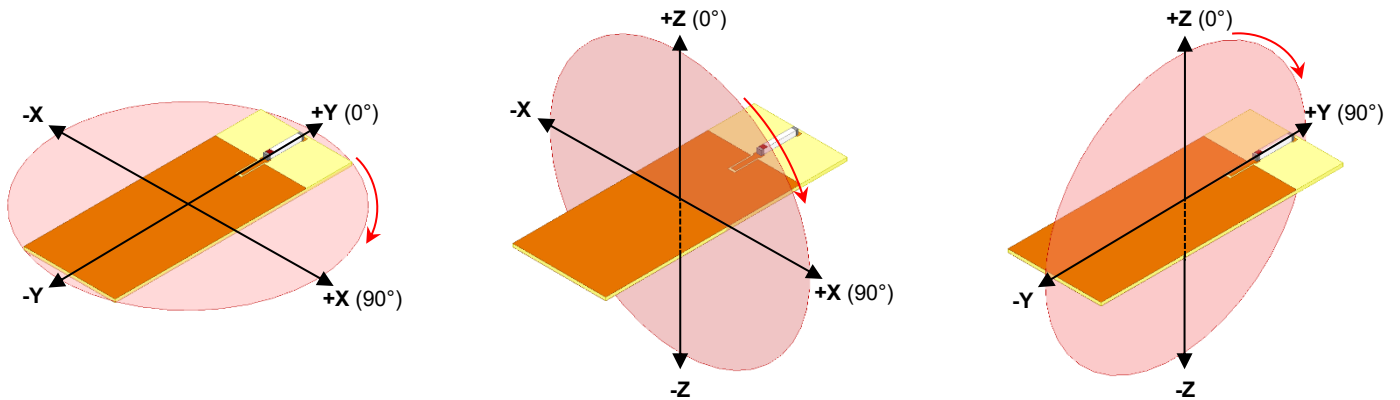
If you'd like the CAD PCB layout or have any questions,
contact our application engineers at <https://www.johansontechnology.com/ask-a-question>

⁴ It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different, depending on the layout, thickness, material, etc. Go to: <https://www.johansontechnology.com/tuning> and see how to obtain the new values.

Evaluation Board Typical Return Loss Measurement (P/N 2600AT44A060001CE1)

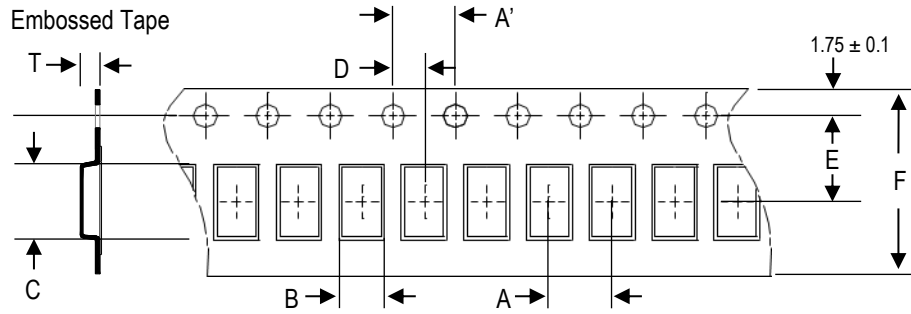


Evaluation Board Typical 2D Radiation Patterns @2600 MHz (P/N 2600AT44A060001CE1)



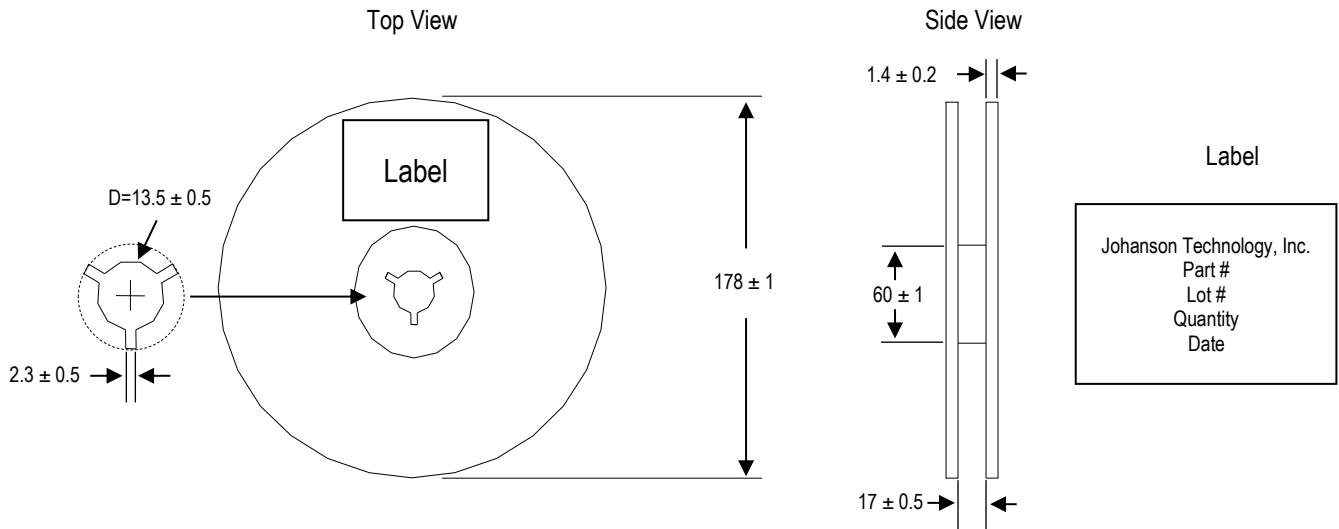
Tape and Reel Specification (Units in mm)

Tape Dimensions

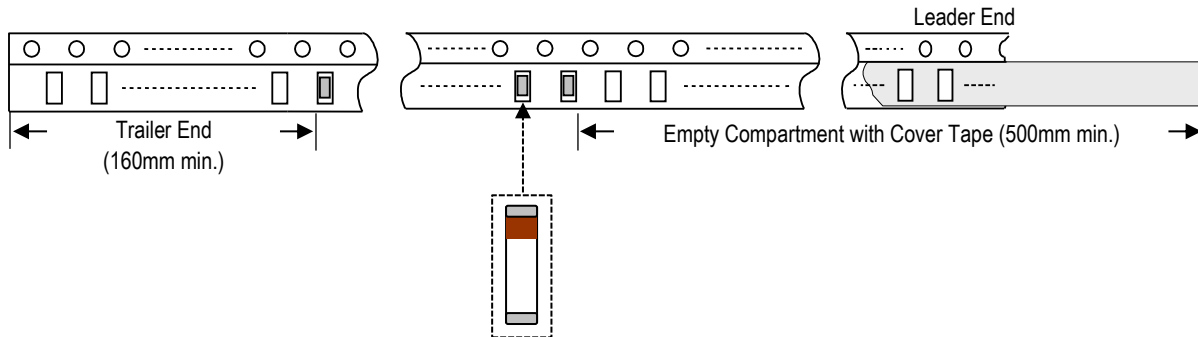


A	A'	B	C	D	E	F	T	Quantity/reel	Tape material
4.0 ± 0.1	4.0 ± 0.1	1.3 ± 0.1	8.35 ± 0.1	2.0 ± 0.05	7.5 ± 0.1	16.0 ± 0.1	1.15 ± 0.1	1,000pcs.	Plastic (Embossed)

Reel Dimensions



Leader and Trailer Dimensions



Orderable Part Number

Packaging Style	Part Number	Termination
Bulk (loose pcs.)	2600AT44A0600001B	Nickel Tin
T & R (7" Reel Embossed Tape)	2600AT44A0600001E(Qty: 1,000 pcs. /reel)	
Evaluation Board with 1 SMA Connector	2600AT44A0600001CE1	

Important Links

[2600AT44A0600001E Product Page](#)

[More RF Chip Antennas](#)

[Antenna Tuning, Optimization, and Validation Services](#)

[Soldering Information](#)

[MSL Information](#)

[Packaging Information](#)

[Recommended Storage Condition and Max Shelf Life](#)

[RoHS Compliance](#)

Contact our application engineers for a PCB layout review.

**Johanson Technology, Inc. reserves the right to make design changes without notice.
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