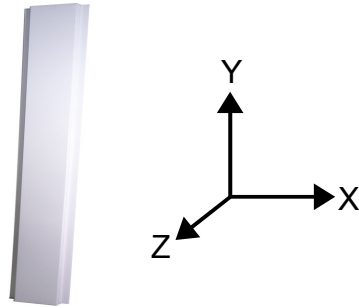




Product Overview

The *Insight™ TAM-040 Multiphase Antenna*



The *Insight TAM-040 Multiphase Antenna* is a revolutionary new design for RFID applications. Incorporating multiple radiating elements that provide both polarization and beam diversity, the *Insight Multiphase™* performs exceptionally well in RFID use cases involving closely packed items or items surrounded by metallic clutter.

Conventional RFID antenna designs emphasize gain and directionality to achieve long read ranges. While this works well for some use cases, the high-gain, high-directionality approach is prone to dead-zones as well as spurious reads at long distances. This can make read zone control for shelf or doorway applications very challenging.

In contrast, the *Insight Multiphase™* reads extremely well within a well-defined range with virtually no dead-zones. Outside this limit, reads fall off very rapidly, allowing good control over where tags are being observed.

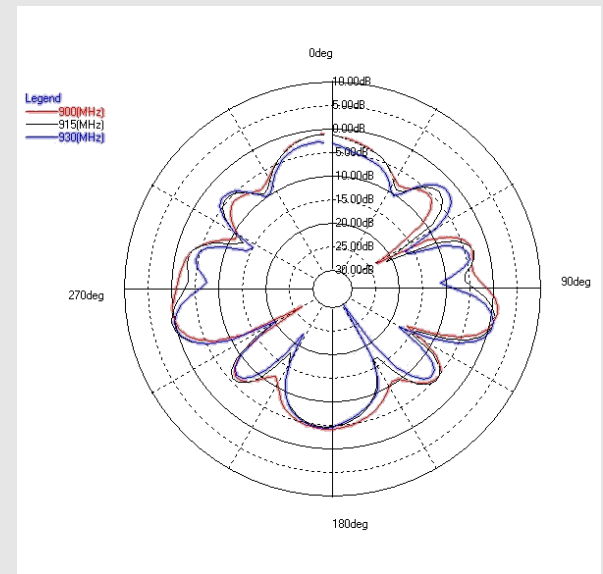
Features

- A well-defined read-zone
- Unique RF field characteristics deliver high performance for tightly packed tags in shelf applications
- Cylindrical pattern around antenna allows antenna to be used on both sides
- An attractive, slim, low-profile design
- Simple mounting scheme and light weight allows for easy integration.

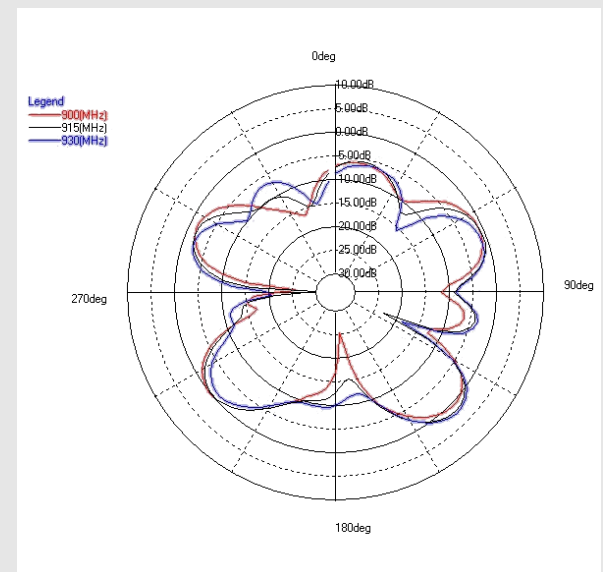


Antenna Pattern (XZ Plane)

Horizontal Polarization

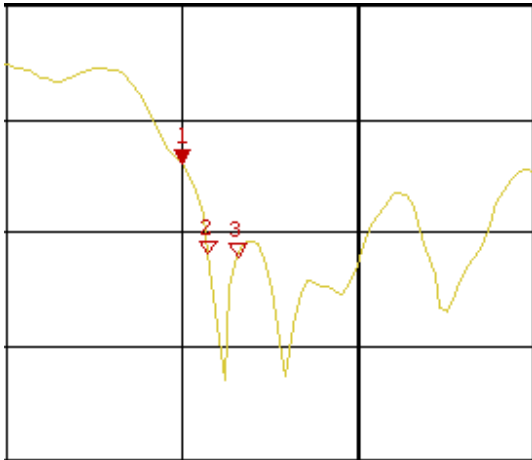


Vertical Polarization





Technical Specifications

Frequency	902-928 MHz									
Peak Gain	4 dBi									
Polarization	Multi-Linear									
Impedance	50 Ohms									
Return Loss	< - 12 dB									
Return Loss v. Frequency	 <table border="1" data-bbox="1146 688 1344 861"> <tr> <td>▼1:</td> <td>-13.91 dB</td> <td>900 MHz</td> </tr> <tr> <td>▼2:</td> <td>-21.78 dB</td> <td>916 MHz</td> </tr> <tr> <td>▼3:</td> <td>-22.10 dB</td> <td>932 MHz</td> </tr> </table>	▼1:	-13.91 dB	900 MHz	▼2:	-21.78 dB	916 MHz	▼3:	-22.10 dB	932 MHz
▼1:	-13.91 dB	900 MHz								
▼2:	-21.78 dB	916 MHz								
▼3:	-22.10 dB	932 MHz								
Physical (Dimensions include mounting flange)	Width: 18 cm Length: 92 cm Height: 3.8 cm Weight: 750 g									
Connector	Reverse Polarity TNC (Cables available in 1.5M, 3M and 4.5M length)									

About Thinkify

Thinkify is a privately-held technology company in Morgan Hill, California that is enabling common objects, devices and whole environments to become aware of their contents using RFID.



Thinkify – Making things think.tm