



Applications



Smart Phones



Tablets



Handheld Gaming Systems



Payment Systems



Ticketing Systems



Bluetooth Pairing

Overview

Amphenol RF offers a wide variety of Near Field Communication (NFC) internal antennas that are easy to use and offer high-performance capabilities to support NFC-Forum wireless standards. NFC antennas are available in standard configurations with adhesive mount options. These short range internal antennas operate at 13.56 MHz and are well suited for compact IoT devices such as smart phones, tablets and gaming consoles and within POS terminals and ticketing systems, and are commonly used in devices that require pairing.

Features and Benefits

- Ideal for compact IoT applications
- Adhesive mount options, with and without cable
- Operates at 13.56 MHz
- Designed to support NFC-Forum wireless protocols
- Short range data transfer capabilities

For more information on Internal RF Antennas, visit:

<https://www.amphenolrf.com/antennas.html>

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Ordering Information



Part Number *With Matching Network **No Matching Network	ST0812-00-N01-A	ST0812-11-N01-A	ST0812-11-N02-A NFC FORUM	ST0815-00-N01-A	ST0815-11-N01-A	ST0815-11-N02-A NFC FORUM
Frequency (MHz)*	13.56					
Material	FPC Ferrite Adhesive 3M 467			PCB Ferrite Adhesive 3M 467		
Impedance (Ω)*	20 / 30	20 / 30	20 / 30	20 / 30	20 / 30	20 / 30
Inductance (μH)**	2.37	1.75	1.54	1.96	1.74	1.54
Resistance (Ω)**	1.38	1.49	1.64	0.88	1.03	1.12
Self Res. Frequency (MHz)**	24.35	93.59	84.27	71.04	83.67	74.05
Q-Factor**	22.10	56.70	49.40	76.20	65.20	58.30
Dimensions (mm)	15 x 19 x 0.35	30 x 34 x 0.35	45 x 34 x 0.35	15 x 19 x 1	30 x 34 x 0.6	45 x 34 x 0.6
Temperature Range (°C)	-40 to 85					
Humidity	Non-condensing 65°C 95% RH					
RoHS	RoHS Compliant					



Part Number *With Matching Network **No Matching Network	ST0812-00-N01-U	ST0812-00-N02-U	ST0815-00-N01-U	ST0815-00-N02-U
Frequency (MHz)*	13 – 15.5			
Material	FPC Ferrite Adhesive 3M 467			
Impedance (Ω)*	20 / 30	20 / 30	20 / 30	20 / 30
Inductance (μH)**	2.53	2.28	5.64	4.35
Resistance (Ω)**	2.41	2.22	2.13	1.83
Self Res. Frequency (MHz)**	27.41	29.55	27.39	34.17
Q-Factor**	30.40	31.60	37.90	47.70
Dimensions (mm)	15 x 19 x 0.2	17 x 14 x 0.2	15 x 19 x 0.6	17 x 14 x 0.6
Temperature Range (°C)	-40 to 85			
Humidity	Non-condensing 65°C 95% RH			
RoHS	RoHS Compliant			

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