

# NFC Antenna

## BTGA & BTGF Series

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Version	Changed Reason	Changed by	Date
01	Original version	Chris	20191008

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## BTGA & BTGF Series



## Features

- Supported with antenna design, matching and Certification.
- Customized.

## Applications

- NFC Reader
- NFC Card mode & payment
- RFID tag

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## Electrical Characteristics

Part Number	Frequency (MHz)	Inductance (uH)	Tolerance (±%)	DC Resistance (Ω)	Self-Resonance (MHz)	Ferrite $\mu'$		
						Min	Typ	Max
BTGA0040303011JB01	13.56	0.84	3	1.1	85	130	150	170
BTGA0050272517A001	13.56	2.275	3	2.3	28	130	150	170

Part Number	Q	Antenna + ferrite thickness(mm)		Antenna area (mm <sup>2</sup> )	Antenna dimension tolerance (mm)Max	
		Typ	(Max)			
BTGA0040303011JB01	61	-	-	-	-	-
BTGA0050272517A001	27	0.28	(0.32)	1200	0.2	

**Note:**

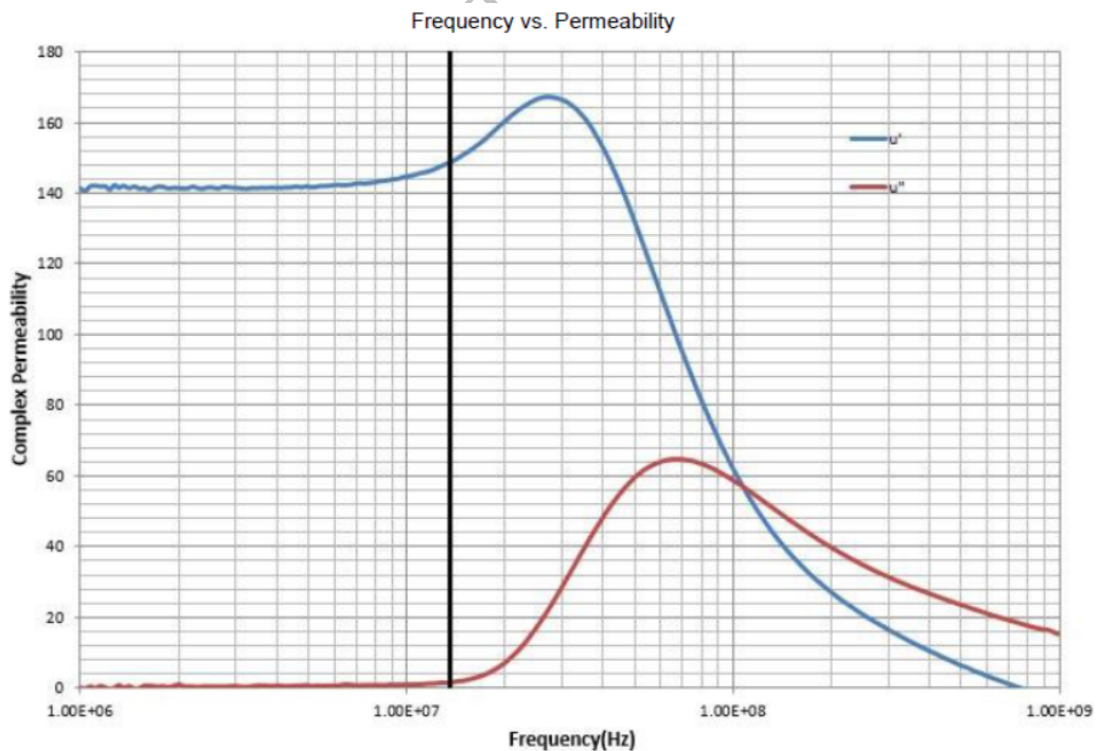
- Operating temperature range - 30°C ~ 85°C(Including self - temperature rise)
- The measurement of antenna is based on VNA two ports differential mode in metal environment.

Part Number	Ferrite sheet total thickness (mm)			Ferrite thickness (mm)	Adhesive thickness (um)	Ferrite $\mu'$ (Typ)	Surface resistivity (Ω/square)Min	Certificate
	Min	Typ	Max					
BTGF0062342523QUE0	0.33	0.35	0.37	0.2	100/50	150	1.0G	RoHS

**Note:**

- Operating temperature range - 40°C ~ 85°C(Including self - temperature rise)

## Ferrite Sheet Permeability



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