



3G TRINOVA®

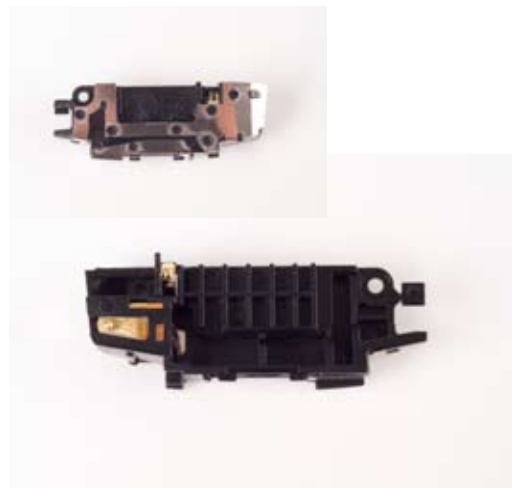
Custom Tri-band Antenna

Antenova's 3G TRINOVA® tri-band antenna covers the GSM 900, DCS 1800, PCS 1900 and UMTS2100 (3G) bands. This small and efficient antenna is suitable for handsets, smartphones and PDA applications.

Antenova's High Dielectric Antenna (HDA®) technology attains low volume and high efficiency. Samples of this antenna integrated into specific handset cases can be prepared upon request and made available for independent testing. Antenova's 3G TRINOVA® tri-band antenna is the ideal enabling solution for receive/transmit diversity on WCDMA.

Benefits:

- Low volume and small size
- High efficiency
- Multi-band capability
- Surface mount attachment
- Internal antenna
- Antenna diversity



3G TRINOVA® custom tri-band antenna

3G TRINOVA® custom tri-band antenna

electrical

FREQUENCY RANGES

[lower band] : 890MHz - 960MHz
 [upper band] : 1710MHz - 2170MHz
 PEAK ELEMENT GAIN :

[lower band] : 2dBi
 [upper band] : 3dBi

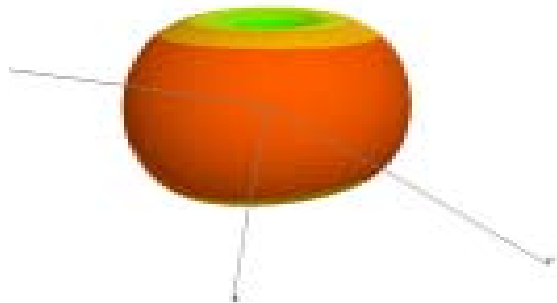
VSWR : MAX 2.8:1
 IMPEDANCE : 50Ω, real

mechanical

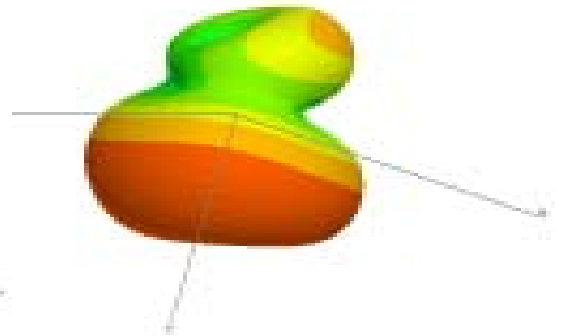
ELEMENT VOLUME : 3.5cc
 MAXIMUM HEIGHT : 7mm
 ELEMENT SUBSTRATE : 1.6mm FR4
 MOUNTING : SURFACE MOUNT
 GROUND PLANE SIZES AVAILABLE :
 90mm x 50mm
 100mm x 40mm
 100mm x 50mm
 120mm x 35mm



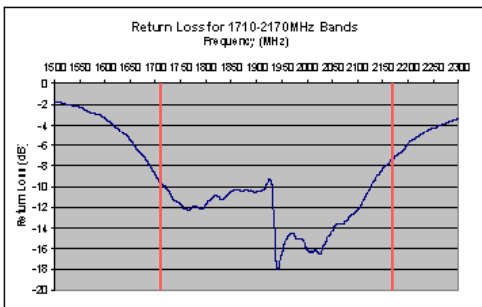
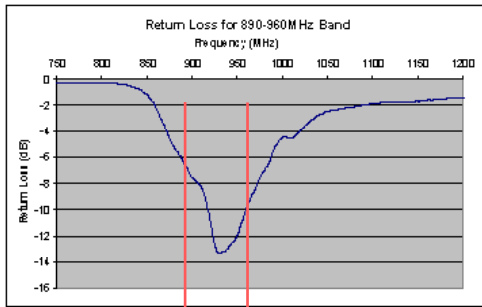
Orientation of the antenna



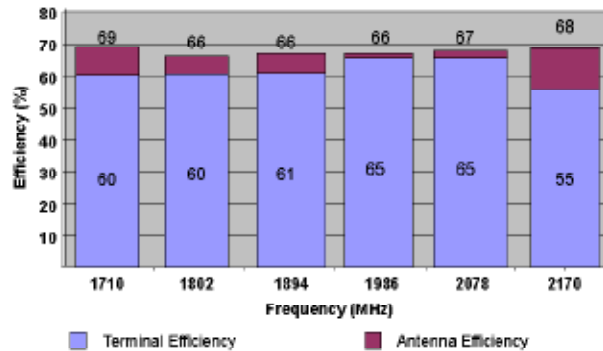
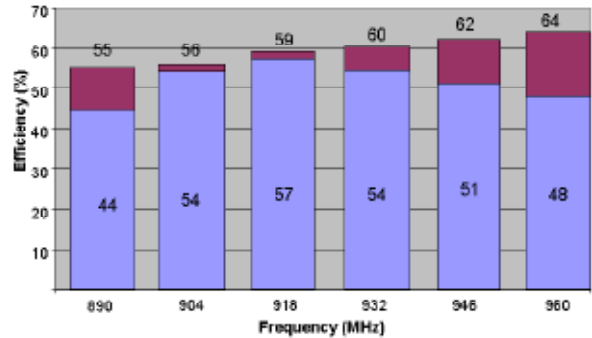
Simulated 3d Gain Plot at 900MHz



Simulated 3d Gain Plot at 1900MHz



Measured Antenna Efficiency



Certificate No: 4598

Antenova Limited • Far Field House • Albert Road • Stow-cum-Quy • Cambridge • CB25 9AR • UK
 t: +44 (0)1223 810600 f: +44 (0)1223 810650
 info@antenova.com • www.antenova.com

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The information provided in this document was correct at the time of going to print