

FracFM™ (NN01-055)

FM (78 – 108 MHz)

Fractus Antennas specializes in enabling effective mobile communications. Using Fractus technology, we design and manufacture optimized antennas to make your wireless devices more competitive. Our mission is to help our clients develop innovative products and accelerate their time to market through our expertise in antenna design, testing and manufacturing.

FracFM™ is an off-the-shelf internal antenna solution specifically designed for general handheld devices and applications operating in the FM band. FracFM™ minimizes your product development cost and time. The FracFM™ antenna is built on glass epoxy substrate. It combines small size and high performance making FracFM™ an optimal choice for your portable FM application. Its electrical and mechanical characteristics ensure design flexibility and optimal performance in devices such as: PDAs, Ultra Mobile PC, Personal Media, PlayerPrivate Mobile Radio, and Laptops.

Product Benefits

- Reduced Form Factor
- Modularity - SMD
- Superior Performance
- Passive Solution
(no amplifier, no active tuning)

32 mm x 11 mm x 1.6 mm (image larger than actual size)

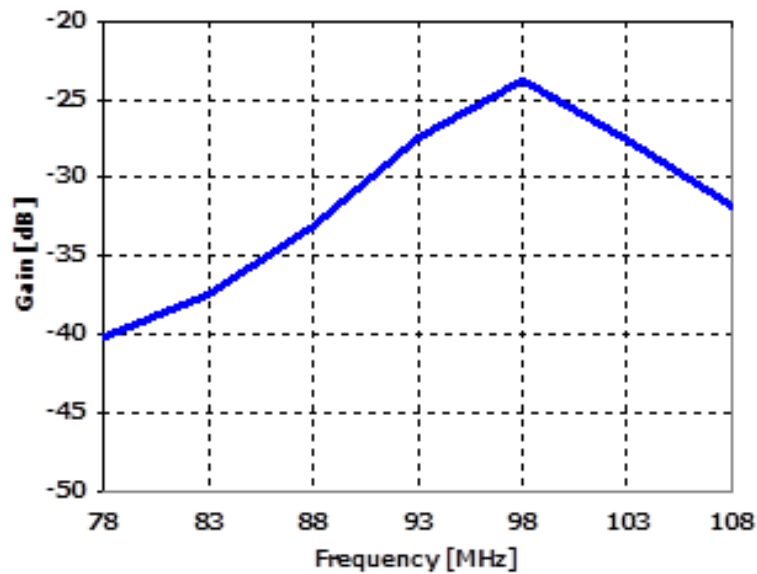


PAT. US 7,148,850, US 7,202,822

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Gain (dB) vs. Frequency (MHz)



Technical features	78 – 108 MHz
Gain Curve	See graph
Radiation Pattern	Omnidirectional
Flatness	< 2 dB gain variation
Polarization	Linear
Weight (approx.)	1.1 g
Temperature	-40 to +125 °C
Impedance	50 Ω
Dimensions (L x W x H)	32.0 mm x 11.0 mm x 1.6 mm

Measures from the evaluation board (128.0 mm x 60.0 mm x 1.0 mm)

See pictures of the evaluation boards, matching network configuration and graphs of the specs in the [User Manual](#).

For additional information, please visit www.fractusantennas.com or contact info@fractusantennas.com.

If you need assistance to design your matching network, please contact support@fractusantennas.com, or try our free-of-charge¹ **NN Wireless Fast-Track** design service, you will get your chip antenna design including a custom matching network for your device in 24h¹. Other related to NN's range of R&D services is available at: <https://www.fractusantennas.com/rdservices/>

¹ See terms and conditions for a free NN Wireless Fast-Track service in 24h at: <https://www.fractusantennas.com/fast-track-project/>

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