

Q2MAX™

Amphenol, NuCurrent and NXP deliver the industry's fastest, most reliable Qi2 charging, capable of both EPP and MPP, for devices including:

- Casino Gaming
- Charging Accessories
- E-Readers
- Earbud Cases
- Fitness Devices
- Industrial Computers
- Infrastructure
- Medical Devices
- Mobile Computers
- Personal Care
- POS
- Smart Speakers
- Tablets
- Wearable Devices



GPG552-15-000-C-RA

Overview

The GPG552-15-000-C-RA module, engineered on the advanced Qi2 Reference Platform and powered by NXP Silicon, sets a superior standard with its industry-leading end-to-end efficiency of over 83%. This module, compliant with WPC Qi 2.0 certification, is meticulously designed for seamless integration into a variety of devices, facilitating optimized wireless charging solutions. It employs advanced hardware and proprietary software to precisely control power transfer and to monitor critical system parameters, ensuring peak performance and maximum safety. Notably, the module leverages proprietary low power modes, achieving ultra-low energy consumption, which is advantageous for battery-powered applications and is instrumental in meeting CEC/DoE Certifications. The innovative use of magnets for optimal positioning maximizes charge transfer efficiency, marking the GPG552-15-000-C-RA as a premium choice for manufacturers striving to enhance the wireless charging functionalities of their products in the competitive tech market.

Key Features

- -20°C to +70°C
- WPC 2.0 certified
- Module thickness: 6.15 mm

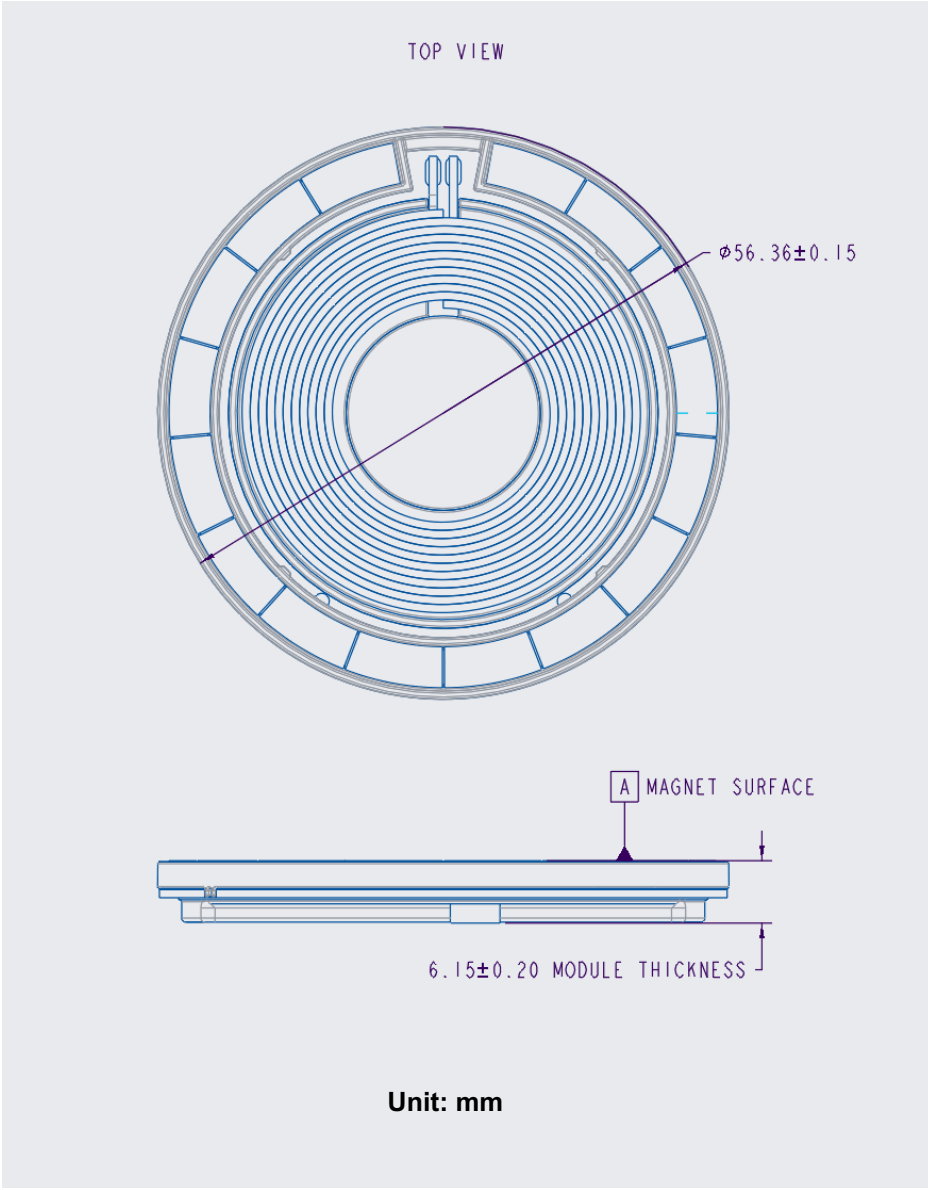
Benefits

- Market's thinnest module, allowing for sleek industrial design
- Power transfer efficiency exceeding >83%
- Low Idle Energy Consumption
- Optimized FOD algorithm
- Qi2 MPP solution
- Secured authentication
- Time-sensitive: Product upgradable in just 3 months.
- Module Customization: Meet various requirements such as power levels, existing design, coil-to-coil distance, and interoperability

Power	15W
Power Profile	BPP + MPP
Separation Distance	<3 mm
Transfer Method	Inductive
Operating Frequency	128KHz & 360Khz

Standard	
Version	WPC Qi2
Input	
Input protocol	USB QC 2.0/3.0, PD (Power Delivery)
Voltage	5V to 12V
Output	
Wireless Range	2 - 5 mm
Standby power consumption	TBD
Operating Frequency	128KHz and 360KHz
Received Power	15W maximum
Electrical Character	
System Charging efficiency	>83%
Certification	TBD (CE/FCC/ROHS)
Operation Temperature	-20 to +70°C

Dimension

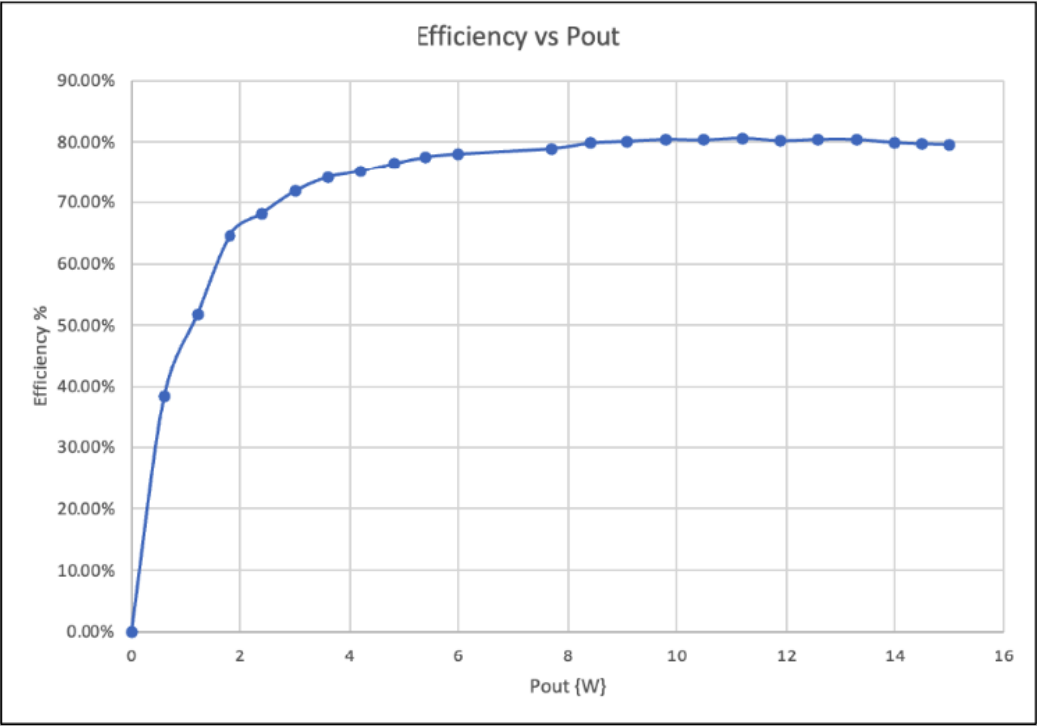


Testing Data:
Highest Efficiency
in Market

System Efficiency

- Enabling CEC and energy consumption strategic objectives for our OEM partners
- Enabling faster charging rates, especially in high ambient temperature conditions.

82.8% DC – DC efficiency for 15W MPP received power using P3A Tx and MPP Rx test tool.
5W and 15W output achieved at all normal and extreme coil positions.



Contact sales@nucurrent.com to get started.

For more information visit www.qi2max.com