Matched Performance
COMET RF Delivery System:
cito Plus RF Generator &
AGS Impedance Matching Network

Benefits
- Seamless communication between cito Plus generator and AGS match
- Perfectly matched performance
- Pulsing compatible
- Flexible and affordable solution

COMET Plasma Control Technologies

High performance, high reliability and precise control of plasma processes at a competitive price: these are the characteristics of the COMET RF delivery system, consisting of our AGS Impedance Matching Network and the cito Plus RF Generator.

The pair is ideal for semiconductor or industrial applications. It offers high reliability and repeatable operation over the lifetime of the product.

The AGS match offers multiple mounting possibilities and adjustable tap settings for wide tune ranges in a compact design.

The full user interface and compatible pulsing with the cito Plus RF generator allows a seamless communication.

Of course both products are also available individually.
cito Plus Technical data

**Frequency, Stability and Accuracy**
13.56/60 MHz, ± 0.005 %

**Output Power**
1 W to 1000 W

**RF Accuracy**
± 1.0 % of setpoint or ± 0.10 % of max. power, whichever is greater

**RF Pulsing, pulse rate**
1 Hz to 100 kHz

**Interfaces**
Analog, RS232, Ethernet, Match control

**CEX**
Master/slave

Configuration

**Dimensions excl. Connectors**
441 mm (width) x 500 mm (depth) x 88 mm (height)

**RF Output Connector**
N-type

**Compliance**
Compliant with all major directives and industrial standards

AGS Technical data

**Dimensions (width x depth x height)**
1000 W – 3000 W: 208 mm x 324 mm x 157 mm
4000 W – 5000 W: 208 mm x 384 mm x 193 mm

**Output connector**
1000 W: 7-16, MC10, Mount Bar
2000 W – 5000 W: MC10, Mount Bar

**Digital user Interface**
Control via front panel of RF generator
Digital User Interface (via host control)

**AC mains input**
90 to 264 VAC single phase

**Compatibility**
Seamless communication with cito Plus generator series

**Cooling**
Air: 1000–3000 W / Water: 4000–5000 W

**Range of applications**
Up to 5 kW capacitive loads
Inductive load applications (ICP)

**Pulsing**
Pulse mode up to 10 kHz

cito Plus RF Generator

Offers superior pulsing quality and stability making it a great choice for all plasma applications.

Exceptional Pulsing Performance

**Pulse rise time**
Ultra short rise times <300ns

**Pulse fall time**
Clean falling edge of the pulse

Enhanced Plasma Stability

- Forward power independent from plasma load impedance.
- Stable output power independent of cable lengths.

AGS Impedance Matching Network

The simple match is ideal for plasma and thin-film applications in most different industries, laboratories or institutes.

The digital controller features high speed tuning, customized algorithms and synchronized pulsing.

**AGS tracks automatically the optimum tune position:**
- Pulsing synchronized with cito Plus RF generator
- End-to-end capacitor tuning with max. 3 s
- Standalone auto-tuning for any RF source

**Features**
- Compact size with multiple mounting possibilities
- L configuration with tappable inductors
- Multiple output connector types

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