

HELIOS™ SERIES

2MHz, 13.56MHz, 27.12MHz, 40.68MHz, 60MHz

The Helios series of matching networks operate from 2 to 60MHz, at power levels from 300W to 40kW, using advanced DSP control algorithms.



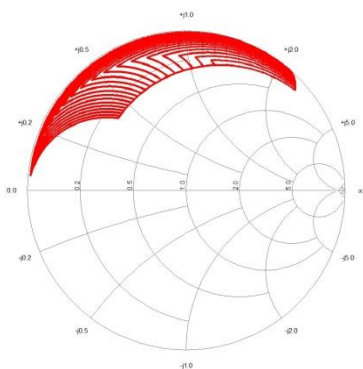
REDEFINING HIGH POWER™

FEATURES

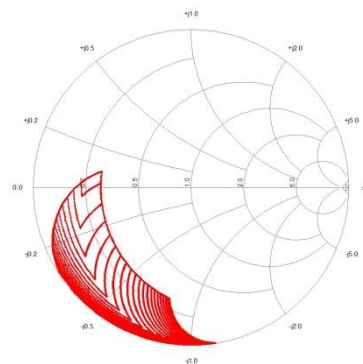
- Wide Tuning Range
- Analog or Serial
- Presets
- Pulsing

The Helios series of matching networks operate at a fixed frequency over the range of 2 to 60MHz. Our matching networks are designed to operate into the extreme dynamic loads found in semiconductor applications.

With broad power and frequency range, the Helios series provides a common platform to meet the ever changing needs of the semiconductor industry.



Typical Inductive
Tuning Range



Typical Capacitive
Tuning Range

SEMICONDUCTOR APPLICATIONS

- PECVD
- SPUTTERING
- DIELECTRIC and
CONDUCTOR ETCH
- ICP

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HX1000

HELIOS™ Matching Network Specifications

RF Power
Frequency

Input Power
VSWR
Mounting
Cooling
Dimensions
Weight

1000W
13.56 MHz
consult factory for 2, 27.12, 40.68 and 60MHz
24VDC or 100 - 264VAC; 47 – 63Hz; 1 Phase
less than 1.3:1
as close to chamber as possible
Air and Water Cooled
5H x 9W x 15.25D (in.); 12.7 x 22.9 x 38.7 (cm)
15 (lbs); 6.8 (kg)

HELIOS Product Matrix				
	HX10000	HX20000	HX30000	HX40000
RF Power	10kW	20kW	30kW	40kW
Type	Configurable Platform	Configurable Platform	Configurable Platform	Configurable Platform
Line Voltage	+24VDC or 100 - 264VAC	+24VDC or 100 - 264VAC	+24VDC or 100 - 264VAC	+24VDC or 100 - 264VAC
Cooling	Air / Water Cooled	Air / Water Cooled	Air / Water Cooled	Air / Water Cooled
Size	10.5H x 17W x 17D (in.) 26.7 x 43.2 x 43.2 (cm)	10.5H x 17W x 17D (in.) 26.7 x 43.2 x 43.2 (cm)	14H x 19W x 26D (in.) 53 x 71.9 x 99.3 (cm)	14H x 19W x 26D (in.) 53 x 71.9 x 99.3 (cm)
Weight	35lbs. (15.8kg)	35lbs. (15.8kg)	75lbs. (34.1kg)	75lbs. (34.1kg)

HELIOS Product Matrix				
	HX300/600	HX1000	HX2500	HX5000
RF Power	300/600W	1kW	2.5kW	5kW
Type	Configurable Platform	Configurable Platform	Configurable Platform	Configurable Platform
Line Voltage	+24VDC or 100 - 264VAC	+24VDC or 100 - 264VAC	+24VDC or 100 - 264VAC	+24VDC or 100 - 264VAC
Cooling	Air / Water Cooled	Air / Water Cooled	Water Cooled	Water Cooled
Size	5H x 9W x 15.25D (in.) 12.7 x 22.9 x 38.7 (cm)	5H x 9W x 15.25D (in.) 12.7 x 22.9 x 38.7 (cm)	6H x 13.12W x 13.5D (in.) 15.2 x 33.3 x 34.3 (cm)	6H x 13.12W x 13.5D (in.) 15.2 x 33.3 x 34.3 (cm)
Weight	15lbs. (6.8kg)	15lbs. (6.8kg)	20lbs. (9.1kg)	20lbs. (9.1kg)



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