

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 600W to 40kW, using advanced DSP control algorithms.



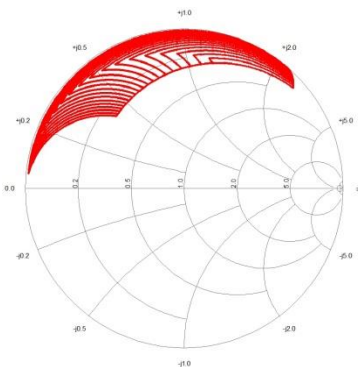
REDEFINING HIGH POWER™

FEATURES

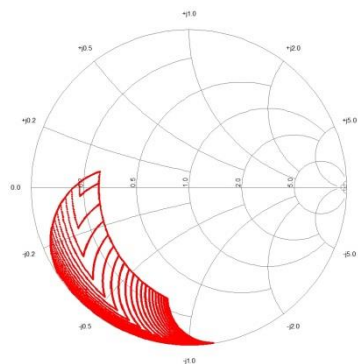
- Wide Tuning Range
- Analog or Serial
- Presets
- Pulsing

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

QEI Corporation
One Airport Drive Williamstown, NJ 08094
Main 856-728-2020
Fax 856-629-1751
<http://www.qei-rf.com>

HX10000

HELIOS™ Matching Network Specifications

RF Power
Frequency

10,000W

13.56 MHz

Input Power
VSWR
Mounting
Cooling
Dimensions
Weight

consult factory for 2 , 27.12, 40.68 and 60MHz
100-240VAC; 47 – 63Hz; 1 Phase
less than 1.3:1
as close to chamber as possible
Air and Water Cooled; 12GPM @ 40 deg. C
10.5H x 17W x 17D (in.); 26.7 x 43.2 x 43.2 (cm)
35 (lbs); 15.8 (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	100 - 264VAC 1 Phase	100 - 264VAC 1 Phase	100 - 264VAC 1 Phase	100 - 264VAC 1 Phase
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				
	HX600	HX1000	HX2500	HX5000
RF Power	600W	1kW	2.5kW	5kW
Type	Configurable Platform	Configurable Platform	Configurable Platform	Configurable Platform
Line Voltage	100 - 264VAC 1 Phase	100 - 264VAC 1 Phase	100 - 264VAC 1 Phase	100 - 264VAC 1 Phase
Cooling	Air / Water Cooled	Air / Water Cooled	Air / Water Cooled	Air / Water Cooled
Size	6H x 11.75W x 15.25D (in.) 15.2 x 29.8 x 38.7 (cm)	6H x 11.75W x 15.25D (in.) 15.2 x 29.8 x 38.7 (cm)	7H x 14W x 14D (in.) 17.8 x 35.6 x 35.6 (cm)	7H x 14W x 14D (in.) 17.8 x 35.6 x 35.6 (cm)
Weight	15lbs. (6.8kg)	15lbs. (6.8kg)	20lbs. (9.1kg)	20lbs. (9.1kg)



www.qei-rf.com

QEI Corporation One Airport Dr. Williamstown NJ 08094 856-728-2020