

# Product brochure

# e2v Radar components

## Categories

- Magnetrons
- Gen 4 Magnetrons
- Radar packages
- Limiters
- Circulators
- Front ends
- Noise generators
- Performance monitors



Marine Parts

# Hard to get products

Are found by us

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# e2v Radar components

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## Content

e2v technology	Background	4
Radar packages	Advised combinations, choose yours	5
Magnetrons	For old and new radar systems	6
Gen 4 Magnetrons	To offer the latest technology	7
Limiters	Protect your receiver	9
Front ends	Harmonize signals to your individual needs or antenna	10
Circulators	Guide your signal to transmitter	11
Noise generators	Identify the objects more accurate	13
Performance Monitors	Notice system degradation on time	14
Quick delivery	Strategically located warehouses	15



Specialized in the global distribution of marine radar spare parts and marine products like power voltage converters, antennas, nautic monitors and batteries.

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Specifications are subject to change without notice.  
AEP Marine Parts is not responsible for typographical errors or obsolescence of products.



# e2v technology

## Background

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e2v products are meeting all requirements for the multitude of system types used today.

### **The world-renowned EEV brand**

e2v technologies is the manufacturer of the world-renowned EEV brand of marine radar magnetrons and components. Today e2v technologies is recognised as a specialist manufacturer of RF, microwave sensing components and sub-systems. e2v technologies has a strong and in a number of cases leading positions in global, niche markets.

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### **Sole and global distribution**

As the sole and global distributor of EEV marine radar magnetrons and components, we stock all the marine radar products made by the manufacturer of EEV marine radar products, e2v technologies Ltd. Visit our website for more information about e2v.

### **e2v history and development**

The origins of e2v technologies can be traced back to the 1940s to the development of magnetrons for use in defence radar applications. Since this time the company has developed a unique set of competencies, both technological and commercial, which has seen them consistently demonstrate their ability to innovate and bring high technology products to market. There are more e2v marine radar components available in addition to the products mentioned in this brochure.

# e2v

# Radar packages

Advised combinations, choose yours

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Make your selection of radar components easier and more efficient by choosing for the composed standard radar packages.

## Perfect mixture of radar components

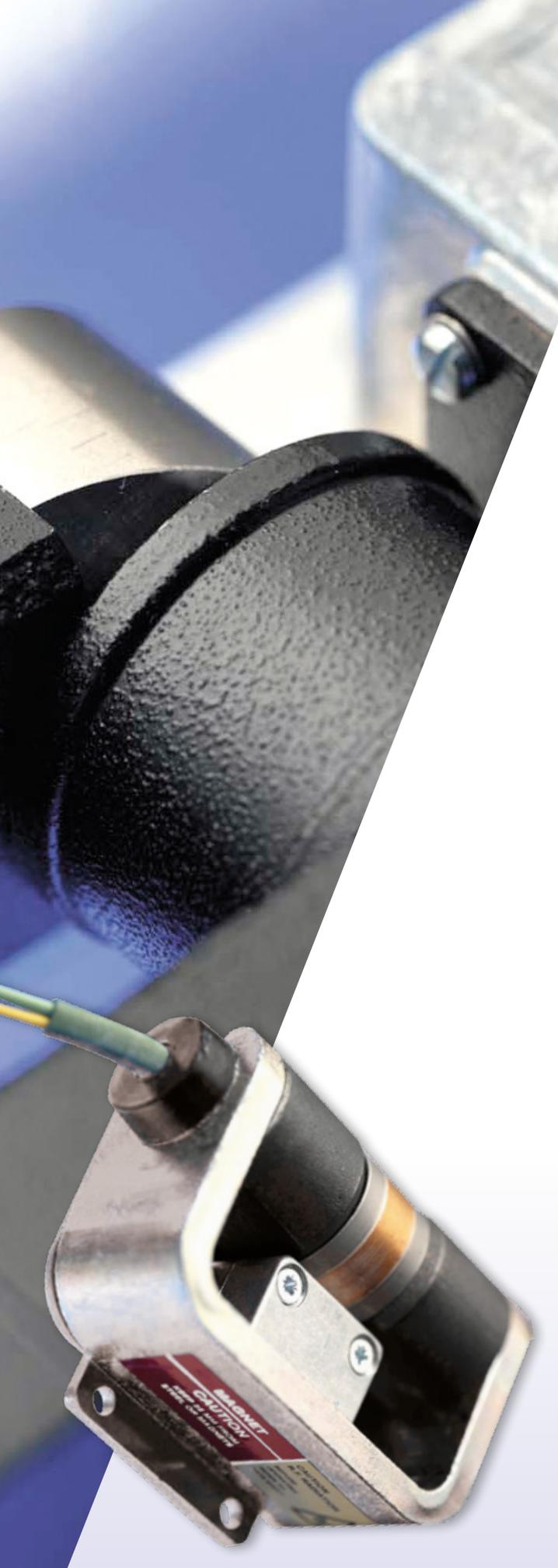
Packages which combine a magnetron, a circulator, a limiter and a front end. Both for X-band as well as S-band radar systems. These packages are compiled to combine the best components for a particular output (kW). Everything has been developed at the highest standard by e2v technologies.

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### Which radar package to use?

Visit our website to view the details of the possibilities. In addition to these standard packages we also gladly advise you the best solution for your application.





# Magnetrons

## For old and new radar systems

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Get your magnetron for most of the radars in use today. Not only for new systems, but also for systems in use for many years.

### e2v magnetrons

A magnetron is an important component of a radar system. As sole and global distributor of e2v marine radar magnetrons, we can supply you the magnetron that fits your radar. Both for X-band and S-band radars.

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#### Which magnetrons are standard available?

Visit our website or ask for the Radar Product Guide to view the details of the possibilities. There is a difference between:

1. Magnetrons for all marine radar applications, the following most used:
  - 3010 - 3090 mHz
  - 9345 - 9405 mHz
  - 9380 - 9440 mHz
  - 9415 - 9475 mHz
  - 9455 - 9680 mHz
  - Special tuned
2. Magnetrons for radar for Coastal Surveillance, radar in Vessel Traffic Systems and Ground Movement Radar on airports.

# Gen 4 magnetrons

To offer the latest technology

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GEN 4 magnetrons offer the latest magnetron technology, they can be installed in almost any radar using 4, 6 and 12,5 kW output.

## GEN 4 magnetron advantages

The advantages of the GEN 4 magnetrons are:

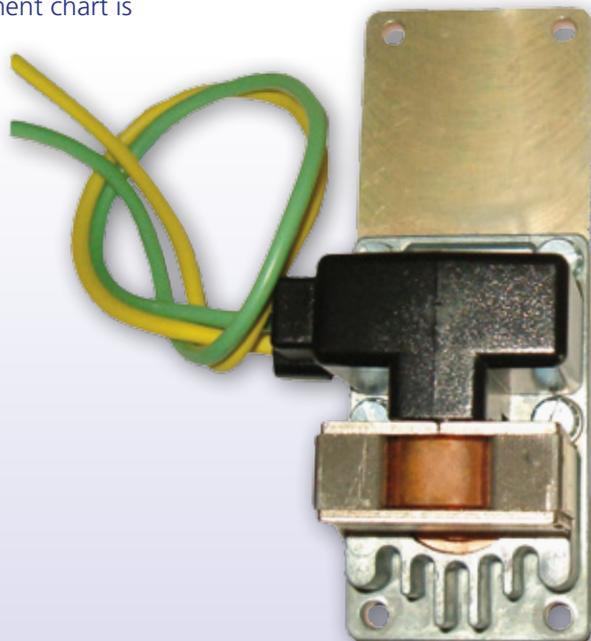
- Replaces almost any other magnetron (GEN 2 and GEN 3) with the same output, using adapter plate A or B.
- Smaller outline than the outline of GEN 2 and GEN 3 magnetrons, avoiding replacements that do not fit.
- A better performance of the GEN 4 magnetron compared to the original GEN 3 magnetron.
- No need to keep a wide range of models in stock, because one of each 4-, 6- or 12.5 kW model can service almost every 4-, 6- or 12.5 kW radar.



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## Which GEN 4 magnetrons can I use as a replacement?

Visit our website or ask for the Radar Product Guide to view the details of the possibilities. A GEN 4 replacement chart is available.



# An ounce of prevention

Is worth a pound of cure

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Prevent failure of your radar by using the high quality e2v radar components



# Limiters

## Protect your receiver

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There is a wide range of limiters available as receiver protection for all radar bands from 1.25 to 40 GHz. All manufactured by e2v technologies.

### High power waveguide devices

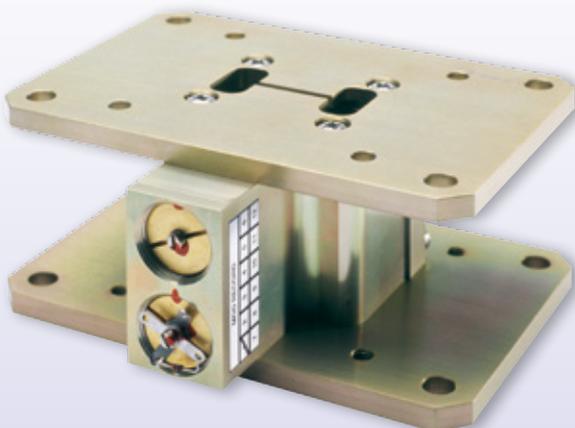
The limiters are divided into two categories:

- Solid state receiver protectors which normally require synchronous bias during transmission; additional passive protection can often be included.
- Passive limiters which require no external bias.

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### Which limiters are standard available?

Visit our website or ask for the Radar Product Guide to view the details of the possibilities. Various PIN switches are also available as well as other additional options.





# Front ends

Harmonize signals to your individual needs

Use a front end as a radar component and provide down conversion to an intermediate frequency.

## Efficiency in use of any radar system

e2v offers a range of low noise front ends for X- and S-band radars. They comprise a LNA (low noise amplifier), a mixer and a VCO (voltage controlled oscillator) local oscillator to provide down conversion.

### Which front end can I use?

Visit our website or ask for the Radar Product Guide to view the details of the possibilities. Looking for other options? Please contact us, we can help you out.



# Circulators

Guide your signal to transmitter or antenna

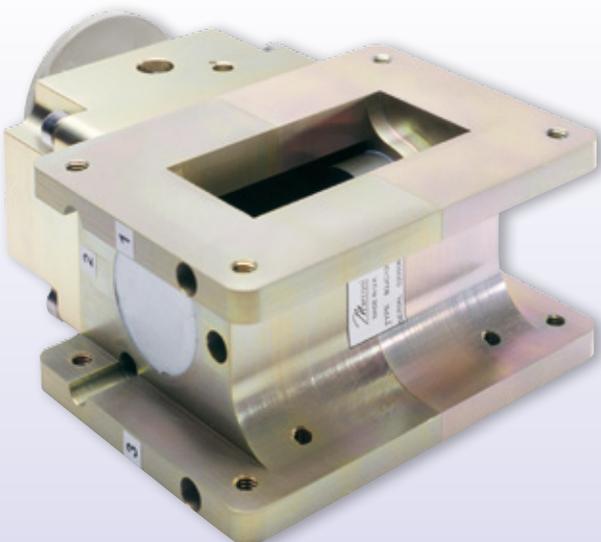
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Separate transmitting energy and echo signals; use a circulator. Useful for both low cost marine radars and state-of-the-art military devices.

## Signal rotation

You can use the circulator to prevent a mix-up of the signals. The operation of a circulator can be compared to a revolving door with three entrances and one mandatory rotating sense. A microwave signal entering via one specific entrance follows the prescribed rotating sense and has to leave the circulator via the next exit. If an antenna is in a connection, transmitting energy is always escorted to the antenna while the echo signals always find the way to the receiver.

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## Range of standard components available

Visit our website or ask for the Radar Product Guide to view the details of the possibilities. We also gladly advise on the best solution for your situation.

# Details,

They will improve the use  
of your radar

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e2v technologies focuses  
on the details of all radar  
components.



# Noise generators

## Identify the objects more accurate

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The more accurate the information you receive from your radar, the better you can respond.

### Reduce the noise

By using a noise generator you reduce the noise which comes with the received signal. Noise might cause a larger interpretation of the identified object than it actually is. Basic functions can be adapted to suit individual needs, as can the mechanical package outline.

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### Which noise generators are standard available?

A range of noise generators is available, covering the X-band frequency range. Visit our website or ask for the Radar Product Guide to view the details of the possibilities.



# Performance Monitors

## Notice system degradation on time

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Rely on your radar system: performance monitors ensure you are working with a proper system.

### Monitor your radar

A performance monitor for use with marine radars which produces a visual indication upon the radar display screen only when the radar transmitter power, the radar receiver sensitivity and tuning are within predetermined limits. So you always know if your radar works properly.

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### Which performance monitors are standard available?

There is a performance monitor for a S-band installation as well as a X-band installation. Visit our website or ask for the Radar Product Guide to view the details of the possibilities.



# Quick delivery

Strategically located warehouses





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