

Active Radar Reflector

ARES818

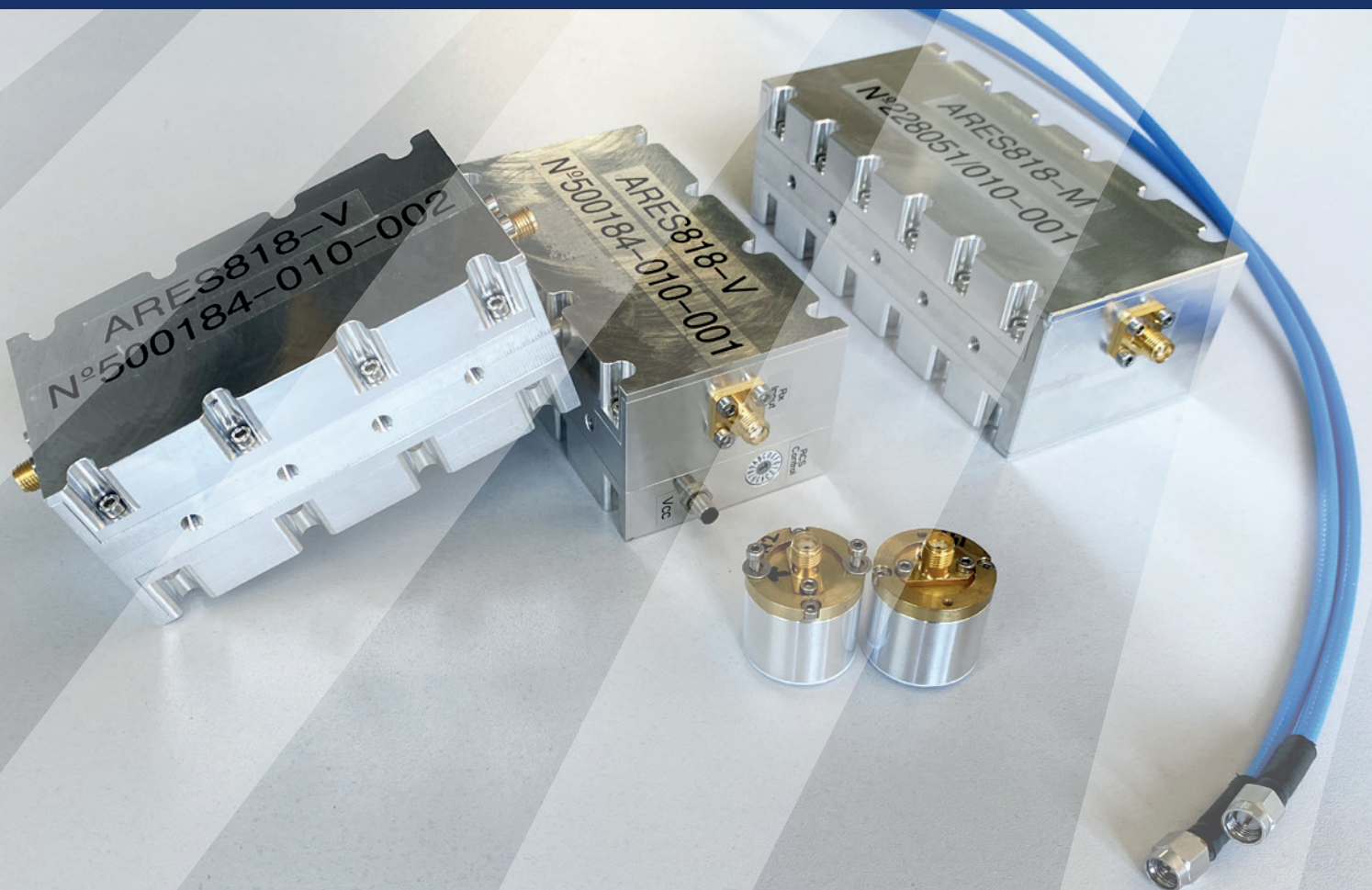


/ Programmable RCS

/ Doppler effect

/ Dual-band technology

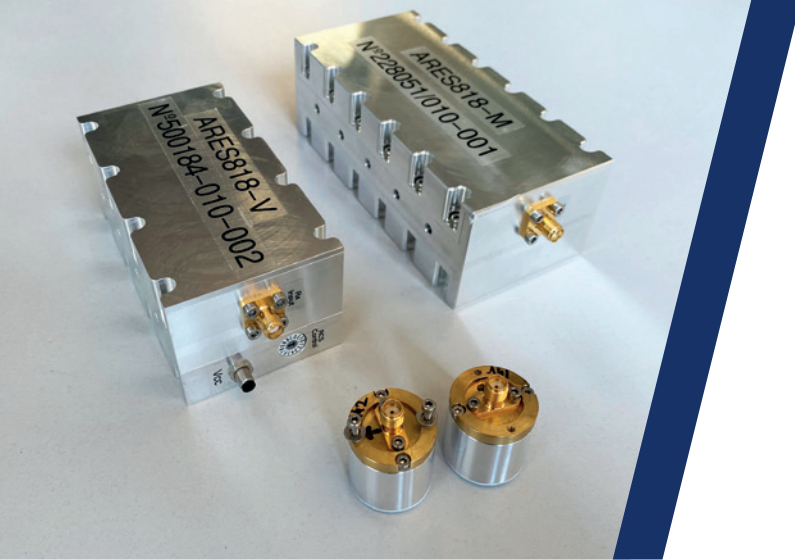
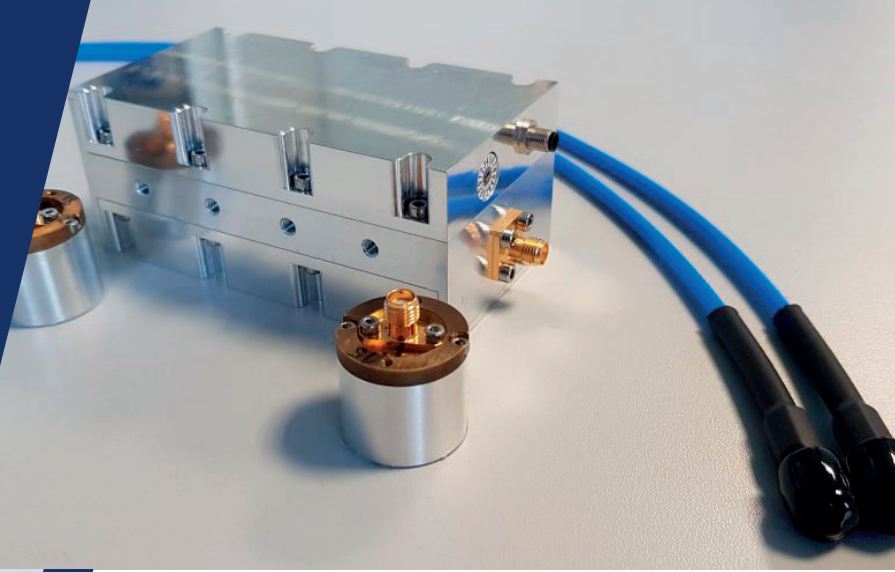
/ Compact & Lightweight



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ARES818

Active Radar Reflector



Configurable product range
 Easy integration on all types of carriers
 RCS generation
 Doppler

RANGE FEATURES

- Polarization : rectilinear or circular
- Viewing Angle : 40° in azimuth & elevation
- RCS Level : 0 to 100 m²
- RCS Modulation : 1 to 1000 Hz
- Doppler Speed : 0.5 to 593 km/h

	ARES818-V	ARES818-M
RCS Augmentation	•	•
Programmable before start-up*	•	•
RCS level setting**	•	•
Remotely controled		•
Doppler option		•
Easy to use GUI		•

* -V : encoder wheel -M: software
 ** -V : 16 levels -M: multiples levels

DESCRIPTION

The ARES range is declined in two versions:

- ARES818-V: configurable before start-up, cost effective solution
- ARES818-M: remotely controled with Doppler option

The active radar reflector consists of two antennas and a microwave module.

It operates on the X and Ku frequency bands (8-18 GHz), whether the radar polarization is circular or rectilinear.

APPLICATIONS

- Radar calibration and commissioning
- Radar operator training (tracking & spotting)
- Radar surveillance networks critical design review and factory or site acceptance testing purposes

Thanks to its compact and lightweight design, ARES can be easily integrated on a large range of UAV, USV, UGV for tracking & spotting.



The technical data contained in this document are for information only and subject to modification. 02/2026