



TRIHEDRAL REFLECTORS

Frequency range	Microwave domain
Measurement option	On request
The reflector can be used on a very wide frequency range.	



Theoretical R.C.S.	$R.C.S. = \frac{4\pi \cdot a^4}{3\lambda^2}$ <p>R.C.S. in sqm λ : wave length in m a in meter (edge of the right-angled triangle from the right-angle)</p>
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Response	<p>Monostatic</p> <p>trihedral reflector Radar transmitter & receiver</p>
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Polarization	<p>Rectilinear. The reflected wave is on the same plane as the wave interrogating the reflector. Option : polarizer for circular waves reflexion without inversion right or left hand</p>
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Dimension	On request. Determination of the relevant dimension for the R.C.S. specifications.
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Options (on request)	<ul style="list-style-type: none"> * Possibility of delivering dismantled (see picture) * Surface treatment (RoHS Alodine, painting...) * Trihedral reflector/support interface standard interface or development of any other interface on request
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Specific packaging	
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⚠ Precautions of use	<p>The response of the trihedral reflector depends on the environment.</p> <ul style="list-style-type: none"> ⦿ Avoid thick fairing ⦿ Avoid fairing made of dielectrical material with important losses ⦿ Avoid any object (especially metallic) positioned between the trihedral and the radar (strap, screw...) ⦿ Take care in mounting
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Example of trihedral reflector

Reference	Theoretical Radar Cross Section at 0° (sqm) (aperture at -3dB : ± 20°)			Standard metal plate thickness (mm)	Weight without fixing (kg)	a (mm)
	F = 3,3 GHz	F = 9,375GHz	F = 16,5GHz			
TT400	13,0	105	324	4	3,8	400

