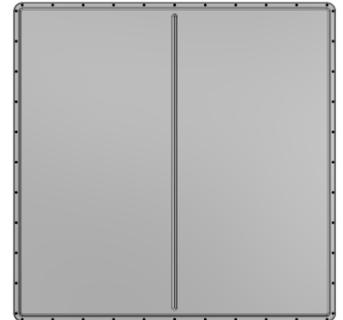


MA-NBAxx-MON29

C-Band Monopulse Antennas for RF tracking systems.

MA-NBAxx-MON29 is a narrow-beam **Monopulse Antenna** featuring two RF channels: **SUM** and **Delta** on the azimuth plane. The antenna consists of two **microstrip plate antenna arrays** and an integrated **RF comparator**.

Upon customer request, **MARS Antennas & RF Systems** can develop and integrate a dedicated **RF device** within the antenna assembly.



Specifications

Electrical

Frequency range	C-band
Polarization	Vertical, linear
Monopulse Mode	Horizontal Plane
Operation RF Channels	SUM, Delta Az.
<u>SUM Channel:</u>	
GAIN, min (including Monopulse Comparator)	29 dBi
3 dB Beam-Width, Azimuth Plane, typ.	4°
3 dB Beam-Width, Elevation Plane, typ.	4°
VSWR, max.	2:1
Side Lobes, min.	-10 dB
Cross Polarization, min.	-25 dB
Front to Back Ratio, min.	-30 dB
Input RF power, max	50 W
Input Impedance	50 Ohms
<u>Delta Az Channel</u>	
Azimuth null depth, min.	30 dB
Azimuth null position	0±0.3°
Phase Delay between SUM & Delta Az Channels, max	20°
VSWR, max.	2:1
Lightning Protection	DC grounded

Mechanical

Dimensions (HxWxD)	820x820x60 mm
Weight	7.5 Kg
Two Connectors	TBD (SMA / TNC / N-type)
Back Plane	Aluminum is protected through chemical passivation
Radome	ABS, UV protected
Mount	TBD

Environmental

Operating Temperature Range	-40°C - +60°C
Humidity	95% at +35°C

MARS Antennas & RF Systems proprietary information

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3 Hamanor st. Holon 5886103, P.O.Box 1852 Holon 5811801, Israel

Tel: +972-3-5599661 • Fax: +972-3-5599677 • e-mail: mars@marsant.co.il • web: www.mars-antennas.com