C Band Offset Antenna System

Comprising:

ReflectorR2 (with feedarm metalwork)
R2Feed440-V/H

Reflector:
Offset parabolic with elliptical edge profile (as seen from feedhorn).
Width 736mm
Height 520mm
Construction: moulded fibreglass with metallized front surface.

Feedarm:
Folded/welded stainless steel, with white powder coat paint.

Feed:
Frequency: 4.2-4.6 GHz
Polarization: V and H
Connectors: N female (x2)
Return Loss: better than 14dB
Isolation between ports: >25dB

System Radiation Pattern Characteristics:
Gain: 26dBi (same for V and H)
-3dB beamwidth:
  azimuth 7.6 degrees
elevation 9.2 degrees (same for V and H)
Cross-Polar on boresight: -25dB
First Sidelobe level:
  azimuth -26dB
elevation -20dB

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