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Antenna model:
RM150

Antenna aperture dimensions:
1.5 m

Standard:
M

Characterization date:
01-03-2013

Validity period:
See remark 5

System Description:

Antenna system based on Holkirk single piece 1.5 m Ku reflector with mode generator, for drive away applications.

Models Characterized:

Standard configuration: linear orthogonal polarization.

Maximum Allowed EIRP:

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 refers):

45.1 dBW / 40 KHz for an orbital separation of the adjacent satellite $\geq 2.5^\circ$

41.6 dBW / 40 KHz for an orbital separation of the adjacent satellite $\geq 2.0^\circ$

40.6 dBW / 40 kHz for an orbital separation of the adjacent satellite $\geq 1.5^\circ$

Tx Frequency:
13.75 – 14.50 GHz

Tx Gain:
45.0 dBi (typical at 14.25 GHz)

Tx XPD:
>30 dB within -1 dB contour

Rx Frequency:
10.7-12.75 GHz

Rx Gain:
42.6 dBi (typical at 11.7 GHz)

Rx XPD:
>22 dB within -1 dB contour

G/T (typical)
21.5 dB/K @ 11.2 GHz

Restrictions and remarks:

- 1 The authorization to operate the terminal is conditioned to the approval to access the Eutelsat S.A. Space Segment (ref. <http://www.eutelsat.com/files/contributed/satellites/pdf/esog100.pdf> ESOG 110).
- 2 RF performance characterization was performed on one antenna unit at the CTS (Cobham Technical Services) test range in Leatherhead, UK, on the 3-4 October 2012.
- 3 Refer to next page for autopoinging configuration details.
- 4 The RM 150 can be equipped with 1+1 combined HPA (400 Watt maximum).
- 5 The characterization's validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.
- 6 Any change to the characterised configuration needs to be notified to Eutelsat and may be subject to further tests.
- 7 The characterization is restricted to direct pointing mode using received DVB carriers.