

**Table A.12-9 – Link Budget for Signaling Forward Link to Class-3 User Terminal
(12.5 kHz bandwidth, via Global Beam)**

General	Unit	
User terminal type	-	Class-3
Modulation ID / Designator	-	C3F4/ 12K5G7W
Data rate (kbps)	(kbps)	12.2
Coding rate	-	0.897
Modulation	-	QPSK
Carrier bandwidth	(kHz)	10.5
Allocated bandwidth	(kHz)	12.5
Uplink		
Frequency	(GHz)	6.5
SAS elevation angle	(deg)	5.0
SAS EIRP towards satellite	(dBW)	60.3
Path loss	(dB)	200.9
Mean Atmospheric loss	(dB)	0.4
Satellite G/T	(dB/K)	-10.4
Boltzmann Constant	(dBW/K/Hz)	-228.6
Up-path C/No	(dBHz)	77.2
Downlink		
Frequency	(GHz)	1.5
User terminal elevation angle	(deg)	90.0
Satellite EIRP	(dBW)	33.0
Path loss	(dB)	188.4
Mean Atmospheric loss	(dB)	0.1
User terminal G/T	(dB/K)	-16.9
Boltzmann Constant	(dBW/K/Hz)	-228.6
Down-path C/No	(dBHz)	56.2
Total		
Mean satellite C/IMo	(dBHz)	60.0
Co-Channel Interference	(dBHz)	999.0
Adjacent satellite interference allocation	(dB)	1.0
Mean Overall C/No	(dBHz)	53.7
Mean Overall C/N	(dB)	13.4
Margin		
C/N objective	(dB)	8.1
C/N margin	(dB)	5.4