

TV/FM (30M0F3F)

G	Up/Down beam	S1/S1	S2/S2	S3/S3
E	Frequency (up)	14.000	14.000	14.000
N	Frequency (down)	11.700	11.700	11.700
E	Transponder bandwidth	36/72	36/72	36/72
R	Occupied bandwidth	30.0	30.0	30.0
A	Energy Dispersal Bandwidth	4.0	4.0	4.0
L	Carrier to Noise Ratio	12.0	12.0	12.0
	Earth station eirp per carrier (BE)	72.0	73.4	72.5
	Earth station eirp per carrier (BP)	64.2	65.2	64.4
	Out of band emissions	16.0	16.0	16.0
U	C/T out of band emissions	-136.6	-135.2	-136.1
P	Path loss (up) at 10 degrees	207.3	207.3	207.3
L	Gain of 1m2	44.4	44.4	44.4
I	Operating flux density	-91.0	-89.6	-90.5
N	Saturation flux density (beam edge)	-84.0	-83.6	-83.1
K	Antenna pattern advantage (up)	7.8	8.2	8.1
	Input back-off	-7.0	-6.0	-7.4
	Spacecraft G/T (beam edge)	1.8	-1.0	0.8
	C/T thermal (up)	-133.5	-135.0	-134.1
	Spacecraft beam isolation (up)	33.0	33.0	33.0
	C/T co-channel (up)	-123.6	-123.6	-123.6
D	Saturated eirp (beam edge)	44.6	42.6	44.5
O	Output back-off	-5.1	-4.1	-5.5
W	Spacecraft beam isolation (down)	33.0	33.0	33.0
N	C/T co-channel (down)	-123.6	-123.6	-123.6
L	Antenna pattern advantage (down)	0.0	0.0	0.0
I	Path loss (down) at 10 degrees	205.8	205.8	205.8
N	Earth station G/T @ BE	35.2	35.2	35.2
K	C/T thermal (down)	-131.1	-132.1	-131.6
	C/T Total	-139.3	-139.3	-139.3
T	Adj.satellite interf. (20% N)	1.0	1.0	1.0
O	Other losses(Tracking+terrestr.,etc)	1.5	1.5	1.5
T	Non linear losses (10% for 3TV/xpndr)	0.0	0.0	0.0
A	Receive E/S antenna noise temp.	158.5	160.0	160.0
L	C/T Available	-141.8	-141.8	-141.8
	C/N Available (dB)	12.0	12.0	12.0
S	Margin above threshold	0.0	0.0	0.0
U	Rec.antenna G/T for zero margin @BE	35.20	35.20	35.20
M	Rec.antenna minimum gain (BE)	57.2	57.2	57.2
M	Satellite minimum eirp (BE)	39.5	38.5	39.0
A	Beam-peak to Beam edge difference	5.5	6.5	6.0
R	Rec.antenna minimum gain (BP)	51.7	50.7	51.2
Y	Satellite maximum eirp (BP)	45.0	45.0	45.0
	PFD at peak (dBW/m2/MHz)	-124.0	-124.0	-124.0

