



Technical Information

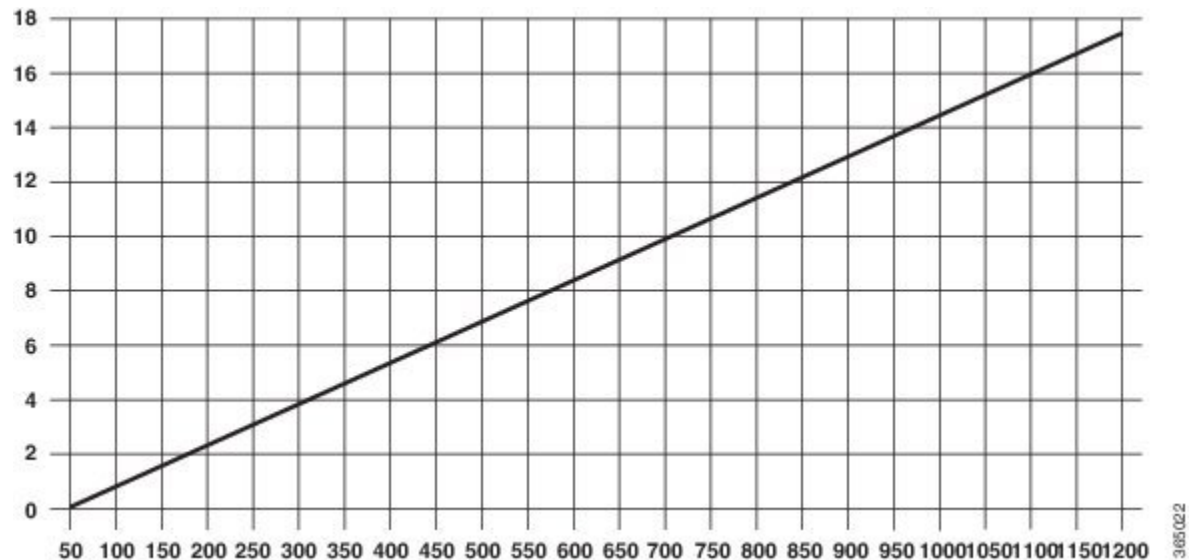
This appendix contains tilt, forward and reverse equalizer charts.

- [Linear Tilt Chart, on page 1](#)
- [Forward Equalizer Chart, on page 2](#)

Linear Tilt Chart

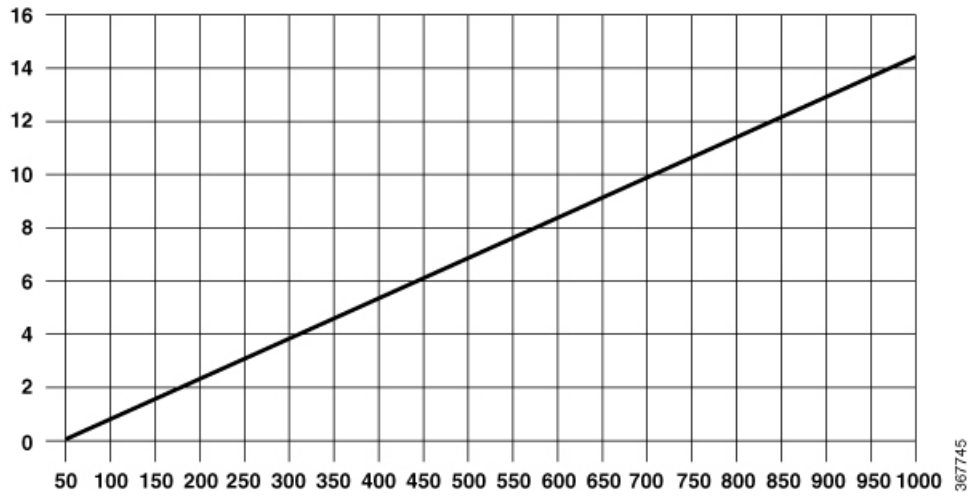
Amplifier Output Linear Tilt Chart for 1.2 GHz

The following chart can be used to determine the operating level at a particular frequency considering the operating linear tilt.



Amplifier Output Linear Tilt Chart for 1 GHz

The following chart can be used to determine the operating level at a particular frequency considering the operating linear tilt.



If the amplifier's 1 GHz output level is 49.0 dBmV with a linear operating tilt of 14.5 dB (from 50 to 1 GHz), the corresponding output level at 750 MHz would be 45.1 dBmV. This was found by taking the difference in tilt between 1 GHz and 750 MHz ($14.5 - 10.6 = 3.9$ dB). Then subtract the difference in tilt from the operating level ($49.0 - 3.9 = 45.1$ dBmV).

Forward Equalizer Chart

1.2 GHz Forward Linear Equalizers

The following table shows the 1.2 GHz forward linear equalizer loss.

EQ Value (dB)	Insertion Loss at (MHz)		Total Tilt (52-1218 MHz)
	1218	1000	
1.5	1.0	1.3	1.5
3.0	1.0	1.6	3.0
4.5	1.0	1.8	4.5
6.0	1.0	2.1	6.0
7.5	1.0	2.4	7.5
9.0	1.0	2.6	9.0
10.5	1.0	2.9	10.5
12.0	1.0	3.2	12.0
13.5	1.0	3.5	13.5
15.0	1.0	3.7	15.0

EQ Value (dB)	Insertion Loss at (MHz)		Total Tilt (52-1218 MHz)
	1218	1000	
16.5	1.0	4.0	16.5
18.0	1.0	4.3	18.0
19.5	1.2	4.8	19.5
21.0	1.2	5.0	21.0
22.5	1.2	5.3	22.5
24.0	1.2	5.6	24.0

1 GHz Forward Linear Equalizers

The following table shows the 1 GHz forward linear equalizer loss.

EQ Value (dB)	Insertion Loss at (MHz)									Total Tilt (52-1000 MHz)
	1000	870	750	650	600	550	86	70	52	
1.5	1.0	1.2	1.4	1.6	1.6	1.7	2.4	2.5	2.5	1.5
3.0	1.0	1.4	1.8	2.1	2.3	2.4	3.9	3.9	4.0	3.0
4.5	1.0	1.6	2.2	2.7	2.9	3.1	5.3	5.4	5.5	4.5
6.0	1.0	1.8	2.6	3.2	3.5	3.8	6.8	6.9	7.0	6.0
7.5	1.0	2.0	3.0	3.8	4.2	4.6	8.2	8.4	8.5	7.5
9.0	1.0	2.2	3.4	4.3	4.8	5.3	9.7	9.8	10.0	9.0
10.5	1.0	2.4	3.8	4.9	5.4	6.0	11.1	11.3	11.5	10.5
12.0	1.0	2.6	4.2	5.4	6.1	6.7	12.6	12.8	13.0	12.0
13.5	1.0	2.9	4.6	6.0	6.7	7.4	14.0	14.2	14.5	13.5
15.0	1.0	3.1	5.0	6.5	7.3	8.1	15.5	15.7	16.0	15.0
16.5	1.0	3.3	5.4	7.1	8.0	8.9	16.9	17.2	17.5	16.5
18.0	1.5	4.0	6.3	8.2	9.1	10.1	18.9	19.2	19.5	18.0
19.5	1.5	4.2	6.7	8.7	9.7	10.8	20.3	20.6	21.0	19.5
21.0	1.5	4.4	7.1	9.2	10.2	11.5	21.8	22.1	22.5	21.0

