

Frequency Stability

47 CFR 2.1055 (a)(1)

Test Conditions		Frequency Stability (%)		
		Low Channel	Middle Channel	High Channel
+50 degree C	V min -38VDC	0.00000425	0.00000401	0.00000449
	V nom -48VDC	0.00000470	0.00000370	0.00000430
	V max -72VDC	0.00000486	0.00000410	0.00000325
+40 degree C	V min -38VDC	0.00000440	0.00000469	0.00000508
	V nom -48VDC	0.00000387	0.00000396	0.00000457
	V max -72VDC	0.00000429	0.00000331	0.00000413
+30 degree C	V min -38VDC	0.00000297	0.00000317	0.00000376
	V nom -48VDC	0.00000293	0.00000355	0.00000508
	V max -72VDC	0.00000360	0.00000484	0.00000480
+20 degree C	V min -38VDC	0.00000621	0.00000614	0.00000479
	V nom -48VDC	0.00000633	0.00000622	0.00000294
	V max -72VDC	0.00000539	0.00000622	0.00000521
+10 degree C	V min -38VDC	0.00000418	0.00000518	0.00000321
	V nom -48VDC	0.00000497	0.00000489	0.00000394
	V max -72VDC	0.00000559	0.00000531	0.00000381
0 degree C	V min -38VDC	0.00000284	0.00000268	0.00000378
	V nom -48VDC	0.00000417	0.00000478	0.00000367
	V max -72VDC	0.00000381	0.00000410	0.00000408
-10 degree C	V min -38VDC	0.00000350	0.00000475	0.00000575
	V nom -48VDC	0.00000490	0.00000289	0.00000477
	V max -72VDC	0.00000315	0.00000498	0.00000487
-20 degree C	V min -38VDC	0.00000742	0.00000646	0.00000755
	V nom -48VDC	0.00000715	0.00000711	0.00000718
	V max -72VDC	0.00000735	0.00000697	0.00000732
-30 degree C	V min -38VDC	0.00000563	0.00000628	0.00000600
	V nom -48VDC	0.00000580	0.00000567	0.00000587
	V max -72VDC	0.00000512	0.00000555	0.00000507

Limits: 47 CFR 101.107

Frequency Tolerance, percent	0.03
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$$\text{Frequency Stability (\%)} = [|(F_c - F_{c \text{ measured}})| / F_c] \times 100 \%$$

Where F_c = Center Frequency in Hz $F_{c \text{ measured}}$ = Center Frequency in Hz measured with Spectrum Analyzer Frequency Counter with 1 Hz resolution