

Frequency Stability

47 CFR 2.1055 (a)(1)

Test Conditions		Frequency Stability (%)		
		Low Channel	Middle Channel	High Channel
+50 degree C	V min -38VDC	0.00000422	0.00000398	0.00000418
	V nom -48VDC	0.00000437	0.00000468	0.00000366
	V max -72VDC	0.00000439	0.00000299	0.00000353
+40 degree C	V min -38VDC	0.00000253	0.00000442	0.00000332
	V nom -48VDC	0.00000333	0.00000262	0.00000449
	V max -72VDC	0.00000452	0.00000284	0.00000387
+30 degree C	V min -38VDC	0.00000265	0.00000489	0.00000469
	V nom -48VDC	0.00000287	0.00000497	0.00000433
	V max -72VDC	0.00000315	0.00000424	0.00000398
+20 degree C	V min -38VDC	0.00000610	0.00000522	0.00000528
	V nom -48VDC	0.00000488	0.00000534	0.00000597
	V max -72VDC	0.00000537	0.00000469	0.00000524
+10 degree C	V min -38VDC	0.00000438	0.00000500	0.00000537
	V nom -48VDC	0.00000520	0.00000382	0.00000481
	V max -72VDC	0.00000341	0.00000476	0.00000389
0 degree C	V min -38VDC	0.00000444	0.00000297	0.00000492
	V nom -48VDC	0.00000527	0.00000420	0.00000380
	V max -72VDC	0.00000590	0.00000434	0.00000407
-10 degree C	V min -38VDC	0.00000266	0.00000441	0.00000464
	V nom -48VDC	0.00000288	0.00000297	0.00000464
	V max -72VDC	0.00000503	0.00000467	0.00000395
-20 degree C	V min -38VDC	0.00000543	0.00000515	0.00000448
	V nom -48VDC	0.00000447	0.00000280	0.00000531
	V max -72VDC	0.00000636	0.00000631	0.00000696
-30 degree C	V min -38VDC	0.00000497	0.00000428	0.00000414
	V nom -48VDC	0.00000570	0.00000613	0.00000617
	V max -72VDC	0.00000453	0.00000400	0.00000523

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