

Frequency Stability

47 CFR 2.1055 (a)(1)

Test Conditions		Frequency Stability (%)		
		Low Channel	Middle Channel	High Channel
+50 degree C	V min -42VDC	0.00000605	0.00000560	0.00000601
	V nom -48VDC	0.00000607	0.00000596	0.00000563
	V max -56VDC	0.00000555	0.00000565	0.00000587
+40 degree C	V min -42VDC	0.00000436	0.00000427	0.00000455
	V nom -48VDC	0.00000509	0.00000491	0.00000453
	V max -56VDC	0.00000476	0.00000459	0.00000531
+30 degree C	V min -42VDC	0.00000509	0.00000514	0.00000518
	V nom -48VDC	0.00000491	0.00000615	0.00000478
	V max -56VDC	0.00000421	0.00000578	0.00000463
+20 degree C	V min -42VDC	0.00000517	0.00000418	0.00000503
	V nom -48VDC	0.00000437	0.00000605	0.00000511
	V max -56VDC	0.00000527	0.00000469	0.00000533
+10 degree C	V min -42VDC	0.00000641	0.00000478	0.00000618
	V nom -48VDC	0.00000663	0.00000579	0.00000577
	V max -56VDC	0.00000564	0.00000569	0.00000536
0 degree C	V min -42VDC	0.00000281	0.00000335	0.00000339
	V nom -48VDC	0.00000313	0.00000346	0.00000437
	V max -56VDC	0.00000446	0.00000405	0.00000367
-10 degree C	V min -42VDC	0.00000365	0.00000372	0.00000400
	V nom -48VDC	0.00000441	0.00000388	0.00000362
	V max -56VDC	0.00000392	0.00000396	0.00000394
-20 degree C	V min -42VDC	0.00000393	0.00000416	0.00000420
	V nom -48VDC	0.00000404	0.00000393	0.00000389
	V max -56VDC	0.00000439	0.00000439	0.00000397
-30 degree C	V min -42VDC	0.00000671	0.00000640	0.00000562
	V nom -48VDC	0.00000629	0.00000569	0.00000621
	V max -56VDC	0.00000592	0.00000481	0.00000566

Limits: 47 CFR 101.107

Frequency Tolerance, percent	0.001
------------------------------	-------

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

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