

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band12 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	0.008	-0.005	-0.003	0.008	---	---
-20	NV	0.001	0.000	-0.002	0.004	---	---
-10	NV	0.002	0.001	-0.005	0.004	---	---
0	NV	-0.006	-0.001	-0.001	0.004	---	---
+10	NV	-0.030	0.004	-0.005	0.012	---	---
+20	NV	0.000	0.000	0.000	0.000	---	---
+30	NV	0.001	0.000	-0.002	0.004	---	---
+40	NV	0.003	-0.001	-0.005	0.001	---	---
+50	NV	-0.008	0.002	0.003	0.008	---	---
+20	LV	-0.018	0.000	-0.002	0.006	---	---
+20	HV	0.001	0.001	0.001	0.012	---	---

Temperature(°C)	Voltage	Test Result (ppm) Band12 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	0.000	0.008	0.006	0.002	---	---
-20	NV	-0.011	0.004	0.006	0.011	---	---
-10	NV	-0.009	0.004	0.008	0.004	---	---
0	NV	0.006	0.000	0.011	0.009	---	---
+10	NV	0.025	0.003	0.009	-0.003	---	---
+20	NV	0.000	0.000	0.000	0.000	---	---
+30	NV	-0.011	0.004	0.006	0.011	---	---
+40	NV	-0.014	-0.004	0.003	0.007	---	---
+50	NV	-0.024	-0.001	0.007	0.006	---	---
+20	LV	0.019	-0.002	0.009	0.003	---	---
+20	HV	0.017	0.000	0.011	0.002	---	---

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	699.7	23017	1.4	1	0	23.48	15.63	0.037
				1	3	23.39	15.54	0.036
				1	5	23.39	15.54	0.036
				3	0	22.52	14.67	0.029
				3	1	22.45	14.60	0.029
				3	3	22.48	14.63	0.029
				6	0	21.44	13.59	0.023
	707.5	23095		1	0	23.34	15.49	0.035
				1	3	23.44	15.59	0.036
				1	5	23.37	15.52	0.036
				3	0	22.33	14.48	0.028
				3	1	22.42	14.57	0.029
				3	3	22.38	14.53	0.028
				6	0	21.43	13.58	0.023
	715.3	23173		1	0	23.34	15.49	0.035
				1	3	23.31	15.46	0.035
				1	5	23.31	15.46	0.035
				3	0	22.27	14.42	0.028
				3	1	22.25	14.40	0.028
				3	3	22.18	14.33	0.027
				6	0	21.51	13.66	0.023
16QAM	699.7	23017	1	0	22.66	14.81	0.030	
			1	3	22.59	14.74	0.030	
			1	5	22.59	14.74	0.030	
			3	0	21.89	14.04	0.025	
			3	1	21.94	14.09	0.026	
			3	3	21.89	14.04	0.025	
			6	0	20.54	12.69	0.019	
	707.5	23095	1	0	22.44	14.59	0.029	
			1	3	22.45	14.60	0.029	
			1	5	22.59	14.74	0.030	
			3	0	21.44	13.59	0.023	
			3	1	21.39	13.54	0.023	
			3	3	21.53	13.68	0.023	
			6	0	20.48	12.63	0.018	
	715.3	23173	1	0	22.57	14.72	0.030	
			1	3	22.45	14.60	0.029	
			1	5	22.56	14.71	0.030	
			3	0	21.55	13.70	0.023	
			3	1	21.49	13.64	0.023	
			3	3	21.49	13.64	0.023	
			6	0	20.25	12.40	0.017	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	699.7	23017	1.4	1	0	21.51	13.66	0.023
				1	3	21.55	13.70	0.023
				1	5	21.58	13.73	0.024
				3	0	20.58	12.73	0.019
				3	1	20.58	12.73	0.019
				3	3	20.52	12.67	0.018
				6	0	19.58	11.73	0.015
	707.5	23095		1	0	21.42	13.57	0.023
				1	3	21.46	13.61	0.023
				1	5	21.49	13.64	0.023
				3	0	20.49	12.64	0.018
				3	1	20.43	12.58	0.018
				3	3	20.46	12.61	0.018
				6	0	19.49	11.64	0.015
	715.3	23173		1	0	21.32	13.47	0.022
				1	3	21.25	13.40	0.022
				1	5	21.25	13.40	0.022
				3	0	20.25	12.40	0.017
				3	1	20.25	12.40	0.017
				3	3	20.32	12.47	0.018
				6	0	19.32	11.47	0.014

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	23.71	15.86	0.039
				1	8	23.45	15.60	0.036
				1	14	23.51	15.66	0.037
				8	0	22.60	14.75	0.030
				8	4	22.54	14.69	0.029
				8	7	22.53	14.68	0.029
	15	0		21.54	13.69	0.023		
	707.5	23095		1	0	23.48	15.63	0.037
				1	8	23.45	15.60	0.036
				1	14	23.59	15.74	0.037
				8	0	22.58	14.73	0.030
				8	4	22.50	14.65	0.029
				8	7	22.56	14.71	0.030
	15	0		21.43	13.58	0.023		
	714.5	23165		1	0	23.54	15.69	0.037
1			8	23.47	15.62	0.036		
1			14	23.29	15.44	0.035		
8			0	22.56	14.71	0.030		
8			4	22.44	14.59	0.029		
8			7	22.48	14.63	0.029		
15	0	21.49	13.64	0.023				
16QAM	700.5	23025	1	0	23.00	15.15	0.033	
			1	8	22.96	15.11	0.032	
			1	14	22.97	15.12	0.033	
			8	0	21.76	13.91	0.025	
			8	4	21.63	13.78	0.024	
			8	7	21.84	13.99	0.025	
	15	0	20.55	12.70	0.019			
	707.5	23095	1	0	22.72	14.87	0.031	
			1	8	22.60	14.75	0.030	
			1	14	22.74	14.89	0.031	
			8	0	21.48	13.63	0.023	
			8	4	21.48	13.63	0.023	
			8	7	21.51	13.66	0.023	
	15	0	20.53	12.68	0.019			
	714.5	23165	1	0	22.74	14.89	0.031	
1			8	22.59	14.74	0.030		
1			14	22.28	14.43	0.028		
8			0	21.46	13.61	0.023		
8			4	21.62	13.77	0.024		
8			7	21.55	13.70	0.023		
15	0	20.54	12.69	0.019				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	700.5	23025	3	1	0	21.67	13.82	0.024
				1	8	21.63	13.78	0.024
				1	14	21.74	13.89	0.024
				8	0	20.67	12.82	0.019
				8	4	20.59	12.74	0.019
				8	7	20.67	12.82	0.019
				15	0	19.67	11.82	0.015
	707.5	23095		1	0	21.49	13.64	0.023
				1	8	21.49	13.64	0.023
				1	14	21.49	13.64	0.023
				8	0	20.46	12.61	0.018
				8	4	20.52	12.67	0.018
				8	7	20.49	12.64	0.018
				15	0	19.49	11.64	0.015
	714.5	23165		1	0	21.53	13.68	0.023
				1	8	21.53	13.68	0.023
				1	14	21.53	13.68	0.023
				8	0	20.53	12.68	0.019
				8	4	20.53	12.68	0.019
				8	7	20.60	12.75	0.019
				15	0	19.60	11.75	0.015

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	23.43	15.58	0.036
				1	12	23.41	15.56	0.036
				1	24	23.47	15.62	0.036
				12	0	22.62	14.77	0.030
				12	7	22.45	14.60	0.029
				12	13	22.52	14.67	0.029
	25	0		21.59	13.74	0.024		
	707.5	23095		1	0	23.63	15.78	0.038
				1	12	23.46	15.61	0.036
				1	24	23.31	15.46	0.035
				12	0	22.58	14.73	0.030
				12	7	22.54	14.69	0.029
				12	13	22.50	14.65	0.029
	25	0		21.43	13.58	0.023		
	713.5	23155		1	0	23.43	15.58	0.036
				1	12	23.22	15.37	0.034
				1	24	23.39	15.54	0.036
				12	0	22.53	14.68	0.029
12			7	22.47	14.62	0.029		
12			13	22.36	14.51	0.028		
25	0	21.44	13.59	0.023				
16QAM	701.5	23035	1	0	22.62	14.77	0.030	
			1	12	22.45	14.60	0.029	
			1	24	22.51	14.66	0.029	
			12	0	21.66	13.81	0.024	
			12	7	21.49	13.64	0.023	
			12	13	21.52	13.67	0.023	
	25	0	20.55	12.70	0.019			
	707.5	23095	1	0	22.64	14.79	0.030	
			1	12	22.63	14.78	0.030	
			1	24	22.63	14.78	0.030	
			12	0	21.54	13.69	0.023	
			12	7	21.56	13.71	0.023	
			12	13	21.52	13.67	0.023	
	25	0	20.55	12.70	0.019			
	713.5	23155	1	0	22.38	14.53	0.028	
			1	12	22.39	14.54	0.028	
			1	24	22.53	14.68	0.029	
			12	0	21.53	13.68	0.023	
12			7	21.52	13.67	0.023		
12			13	21.52	13.67	0.023		
25	0	20.48	12.63	0.018				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	701.5	23035	5	1	0	21.54	13.69	0.023
				1	12	21.57	13.72	0.024
				1	24	21.58	13.73	0.024
				12	0	20.57	12.72	0.019
				12	7	20.54	12.69	0.019
				12	13	20.39	12.54	0.018
				25	0	19.61	11.76	0.015
	707.5	23095		1	0	21.54	13.69	0.023
				1	12	21.42	13.57	0.023
				1	24	21.55	13.70	0.023
				12	0	20.45	12.60	0.018
				12	7	20.41	12.56	0.018
				12	13	20.47	12.62	0.018
				25	0	19.52	11.67	0.015
	713.5	23155		1	0	21.48	13.63	0.023
				1	12	21.42	13.57	0.023
				1	24	21.49	13.64	0.023
				12	0	20.59	12.74	0.019
				12	7	20.48	12.63	0.018
				12	13	20.42	12.57	0.018
				25	0	19.48	11.63	0.015

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	10	1	0	23.40	15.55	0.036
				1	25	23.45	15.60	0.036
				1	49	23.21	15.36	0.034
				25	0	22.56	14.71	0.030
				25	12	22.53	14.68	0.029
				25	25	22.53	14.68	0.029
	50	0		21.48	13.63	0.023		
	1	0		23.41	15.56	0.036		
	1	25		23.47	15.62	0.036		
	1	49		23.39	15.54	0.036		
	25	0		22.59	14.74	0.030		
	25	12		22.60	14.75	0.030		
	25	25		22.50	14.65	0.029		
	50	0		21.54	13.69	0.023		
	1	0		23.38	15.53	0.036		
	1	25		23.41	15.56	0.036		
	1	49		23.42	15.57	0.036		
	25	0		22.52	14.67	0.029		
25	12	22.45	14.60	0.029				
25	25	22.37	14.52	0.028				
50	0	21.45	13.60	0.023				
16QAM	704	23060	10	1	0	22.95	15.10	0.032
				1	25	22.86	15.01	0.032
				1	49	22.78	14.93	0.031
				25	0	21.67	13.82	0.024
				25	12	21.66	13.81	0.024
				25	25	21.59	13.74	0.024
	50	0		20.60	12.75	0.019		
	1	0		22.92	15.07	0.032		
	1	25		22.87	15.02	0.032		
	1	49		22.78	14.93	0.031		
	25	0		21.66	13.81	0.024		
	25	12		21.67	13.82	0.024		
	25	25		21.61	13.76	0.024		
	50	0		20.59	12.74	0.019		
	1	0		22.77	14.92	0.031		
	1	25		22.54	14.69	0.029		
	1	49		22.74	14.89	0.031		
	25	0		21.58	13.73	0.024		
25	12	21.60	13.75	0.024				
25	25	21.60	13.75	0.024				
50	0	20.66	12.81	0.019				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	704	23060	10	1	0	21.64	13.79	0.024
				1	25	21.67	13.82	0.024
				1	49	21.61	13.76	0.024
				25	0	20.66	12.81	0.019
				25	12	20.73	12.88	0.019
				25	25	20.70	12.85	0.019
	50	0		19.63	11.78	0.015		
	707.5	23095		1	0	21.56	13.71	0.023
				1	25	21.62	13.77	0.024
				1	49	21.59	13.74	0.024
				25	0	20.52	12.67	0.018
				25	12	20.55	12.70	0.019
				25	25	20.59	12.74	0.019
	50	0		19.58	11.73	0.015		
	711	23130		1	0	21.63	13.78	0.024
				1	25	21.66	13.81	0.024
				1	49	21.66	13.81	0.024
				25	0	20.67	12.82	0.019
				25	12	20.66	12.81	0.019
				25	25	20.67	12.82	0.019
	50	0		19.66	11.81	0.015		