



## ViaLite Communications - Min and Max Input Signals

Desc & Digit 9 (Gain)	HWDR Link (0), S1 - 5 mW	HWDR Link (9), S2 - 12 mW	L-Band Link (3)	L-Band Link (5)	L-Band Link (6)	Timing Link (6)	Timing Link (0)	IF-Band Link (3)	1 GHz Link	3 GHz Link	4.2 GHz Link	GPS Link (0)	C-Band Link (5)
<b>Default Tx Gain (dB)</b>	-5	0	-11	-15	-25	-25	-5	-11	-15	-15	-15	-5	0
Bandwidth (MHz)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)
36 MHz	-84	-87	-78	-74	-64	-66	-85	-78	-75	-73	-73	-95	-71
500 MHz	-73	-76	-67	-63	-53	-55	-74	N/A	-64	-62	-62	N/A	-60
1000 MHz	-70	-73	-64	-60	-50	-52	-71	N/A	-61	-59	-59	N/A	-57
1200 MHz	-69	-72	-63	-59	-49	-51	-70	N/A	N/A	-58	-58	N/A	-56
P1dB (dBm)	-1	-1	-1	3	13	10	-6	-1	2	2	2	-5	-5
Max input without Damage (dBm)	15	15	15	15	20	20	15	15	15	15	15	15	13
Recommended Input to meet 40 dBc IMD	-9	-9	-9	-5	5	2	-14	-9	-6	-6	-6	-13	-12
Noise Figure (dB)	14.5	11	20	24	34	32	13.5	20	23	25	25	16	27

Desc & Digit 9 (Gain)	HWDR Link (0), S1 - 5 mW	HWDR Link (9), S2 - 12 mW	L-Band Link (3)	L-Band Link (5)	L-Band Link (6)	Timing Link (6)	Timing Link (0)	IF-Band Link (3)	1 GHz Link	3 GHz Link	4.2 GHz Link	GPS Link (0)	C-Band Link (5)
<b>Min Tx Gain (dB)</b>	-17	-12	-18.5	-19	-30	-30	-17.5	-16.5	-20	-26.5	-26.5	-4	-10
Bandwidth (MHz)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)
36 MHz	-72	-76	-70.5	-70	-59	-61	-72.5	-72.5	-70	-61.5	-61.5	-96	-61
500 MHz	-61	-65	-59.5	-59	-48	-50	-61.5	N/A	-59	-50.5	-50.5	N/A	-50
1000 MHz	-58	-62	-56.5	-56	-45	-47	-58.5	N/A	-56	-47.5	-47.5	N/A	-47
1200 MHz	-57	-61	-55.5	-55	-44	-46	-57.5	N/A	N/A	-46.5	-46.5	N/A	-46
P1dB (dBm)	3	3	6.5	7	18	13	4.5	4.5	7	13.5	13.5	-6	5
Max input without Damage (dBm)	15	15	15	15	20	20	15	15	15	15	15	15	13
Recommended Input to meet 40 dBc IMD	-5	-5	-1.5	-1	10	5	-3.5	-3.5	-1	5.5	5.5	-14	-6
Noise Figure (dB)	25	22	27.5	28	39	35	24	23.5	26	34.5	34.5	13	37

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<b>Max Tx Gain (dB)</b>	-1.5	3.5	-4	-3.5	-15	-15	-2	-1	-5	-10	-10	-19.5	5
Bandwidth (MHz)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)	MDS (dBm)
36 MHz	-87	-89	-85	-85.5	-74	-76	-88	-88	-85	-78	-78	-80.5	-76
500 MHz	-76	-78	-74	-74.5	-63	-65	-77	N/A	-74	-67	-67	N/A	-65
1000 MHz	-73	-75	-71	-71.5	-60	-62	-74	N/A	-71	-64	-64	N/A	-62
1200 MHz	-72	-74	-70	-70.5	-59	-61	-73	N/A	N/A	-63	-63	N/A	-61
P1dB (dBm)	-4.5	-5	-8	-8.5	3	0	-9	-11	-8	-3	-3	9.5	-10
Max input without Damage (dBm)	15	15	15	15	20	20	15	15	15	15	15	15	13
Recommended Input to meet 40 dBc IMD	-12.5	-13	-16	-16.5	-5	-8	-17	-19	-16	-11	-11	1.5	-17
Noise Figure (dB)	11	9	13	12.5	24	22	10.5	10	13	20	20	30.5	22

Highlighted cells at 2 MHz BW for GPS