

Electrical Performance Compliance

SHALL_#	PARAMETERS	LIMIT		UNITS	NOTES	Aldetec Exceptions
		MIN	MAX			
[Shall_01]	Operative Frequency range	34	36	GHz	---	Compliant
[Shall_02]	Small Signal Gain	36	40	dB	---	Compliant
[Shall_03]	Small Signal Gain Over Temperature Variation	-1.5	+1.5	dB	---	Compliant - Only room temp. data is provided as final package
[Shall_04]	Power Saturation over temperature variation	-0.5	+0.5	dB	Temperature compensated	Compliant - Only room temp. data is provided as final package
[Shall_05]	Power Saturation Flatness over frequency	-0.5	+0.5	dB	0.25 dB/300 MHz	Compliant
[Shall_06]	Noise Figure	---	7.5	dB	---	Compliant
[Shall_07]	Input Power	+3.0	+10	dBm	---	Compliant
[Shall_08]	Output Power	29	---	dBm	---	Compliant
[Shall_09]	Harmonic Output Power ratio	---	-50	dBc	---	By design and confirmed by previous customer integration - Not tested
[Shall_10]	Spurious Output ratio	---	-60	dBc	Between 1÷50 KHz from the carrier	By design and confirmed by previous customer integration - Not tested
		---	0	dBc	> 50 KHz from the carrier	
[Shall_11]	V _{out} Detector J3	1.5	2	V	At + 3 dBm IN (pulsed with 30 nsec rise and fall time)	Compliant
[Shall_12]	V _{out} Detector J4	1.5	2	V	At + 9 dBm IN (pulsed with 30 nsec rise and fall time)	Compliant
[Shall_13]	Input VSWR	---	2.0:1	---	---	Compliant
[Shall_14]	Output VSWR	---	2.0:1	---	---	Compliant
[Shall_15]	Duty Cycle	---	100	%	RF will be pulsed	Compliant
[Shall_16]	RF pulse to pulse phase variation	---	0.5	°	---	Compliant
[Shall_17]	DC Input Voltage	+13	+17	V	Transzorb Protected	Compliant
[Shall_18]	DC Input Current	---	1.7	A	---	Compliant