



Rev H.03 (August 2018)

## Pulse Internal Active Antennas for GNSS (GPS/ Glonass/BeiDou, Galileo) Application

App.	Type	Pulse Part number	RF Performance							ME requirement				Note	Availability
			Operating Frequency (MHz)	Antenna Element		LNA			Antenna Dimension (mm)	Overall Dimension (mm)	Connector type	Coaxial Cable (Length; Diameter)			
				VSWR	RHCP Gain (dBic)	Gain (dB)	NF (dB)	Current (mA)					VCC (Vdc)		
GPS	Ceramic patch with LNA and coaxial cable	<a href="#">GPSMOD1315</a>	1575.42 +/- 1.023	1.5 : 1	-1 ± 1	16 ± 1	< 2.4	< 6	3.3-5 ± 0.5	13x13x5	14x15x8.15	U.FL compatible	L:32; D:0.81	1 stage LNA	<a href="#">stock</a>
		<a href="#">GPSMOD1333</a>		1.5 : 1	-1 ± 1	33 ± 2	< 2.4	< 10	3.3-5 ± 0.5	13x13x5	16x17x8.15	U.FL compatible	L:32; D:0.81	2 stage LNA	<a href="#">stock</a>
	Ceramic patch with LNA	<a href="#">GPSMOD2515</a>		1.5 : 1	3.4 ± 1	16 ± 1	< 2.6	< 6	3.3-5 ± 0.5	25x25x4	30x30x8	N/A	N/A (Solder pad for coaxial cable)	1 stage LNA	<a href="#">stock</a>
		<a href="#">GPSMOD2533</a>		1.5 : 1	3.4 ± 1	33 ± 2	< 3.4	< 10	3.3-5 ± 0.5	25x25x4	30x30x8	N/A	N/A (Solder pad for coaxial cable)	2 stage LNA	<a href="#">stock</a>
GNSS (GPS, Glonass, BeiDou, and Galileo)	Ceramic patch with LNA and coaxial cable	<a href="#">GPSGB1315</a>	1561 +/- 2.046, 1575.42 +/- 1.023, and 1602.5625 +/- 4 MHz	2 : 1	-1 ± 1	15 ± 2	< 2.4	< 6	3.3-5 ± 0.5	13x13x5	14x15x8.15	Equivalent of I-PEX MHF 20278-11R-13 or compatible with U.FL connector	L:100; D:1.13	1 stage LNA	<a href="#">stock</a>
		<a href="#">GPSGB1330</a>		2 : 1	-1 ± 1	30 ± 2	< 2.4	< 6	3.3-5 ± 0.5	13x13x5	16x17x8.15		L:100; D:1.13	2 stage LNA	<a href="#">stock</a>
		<a href="#">GPSGB2515</a>		2 : 1	1 ± 1	15 ± 2	< 2.4	< 6	3.3-5 ± 0.5	25x25x4	30x30x8		L:100; D:1.13	1 stage LNA	<a href="#">stock</a>
		<a href="#">GPSGB2530</a>		2 : 1	1 ± 1	30 ± 2	< 2.4	< 6	3.3-5 ± 0.5	25x25x4	30x30x8		L:100; D:1.13	2 stage LNA	<a href="#">stock</a>

Note: Spec of 'Out of band rejection' for LNA can be found on the datasheet (GPSGBXXXX). For more questions, please contact to sales (antennas.us@pulseelectronics.com).