

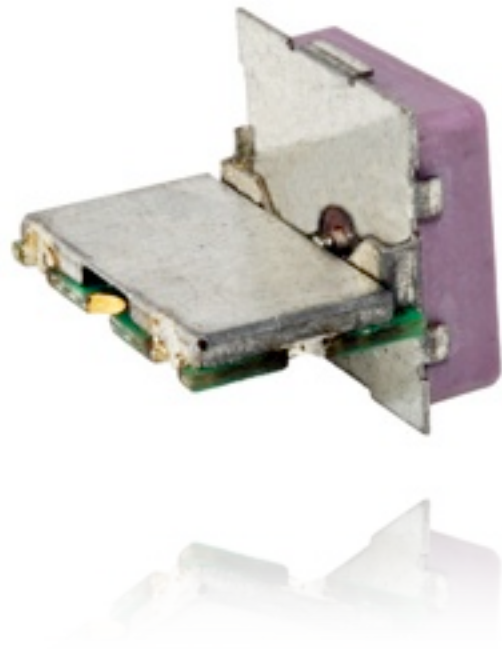
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### SMT GPS Active Patch Antenna

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- Very small patch 12mm
- SMT mount
- High performance
- 23 dB LNA
- Low power consumption

ADA-12RA-23 is a super compact, SMT easy mount, high performance active GPS antenna module. It's unique in it's kind and specially designed for small integrated devices and low cost production creating high yield.

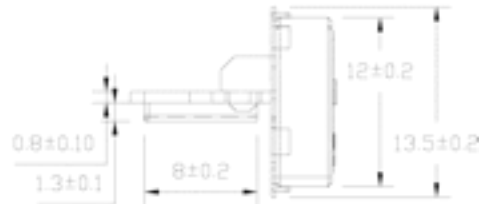
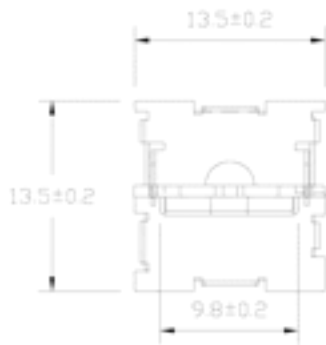
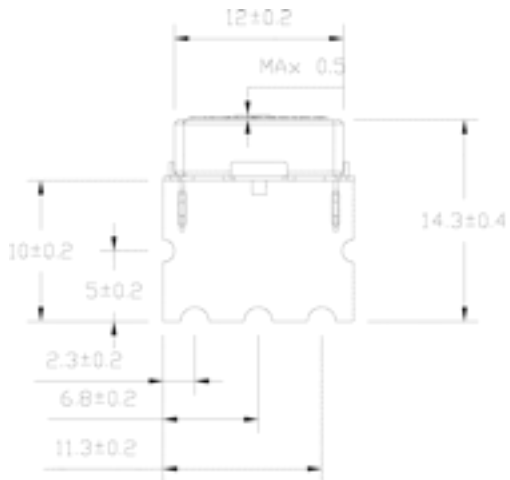


**RoHS**

## Specification

Category	GPS
Frequency	1575.42 ± 1.023 MHz
Polarization	R.H.C.P.
Antenna Gain	Typ. -1,5 dBic
Bandwidth	3 MHz min @S11-10 dB.
Antenna Dimensions	12 x 12 x 4 mm
Axialratio	Max 4.0dB@Zenith
	LNA
Supply Voltage	2.7 VDC - 3.0 VDC - 3.3 VDC
Power consumption	@3.0 VDC Typ 10mA
Total Gain	23 dB ± 1dB
Noise Figure	2,5 dB Typ.
Impedance	50 Ω
V.S.W.R	< 2.0 : 1
	Overall Performance
Frequency Range	1575.42 ± 1.023 MHz
Gain	23 dB Min. 24 dB Typ.
Output Impedance	50 Ω
Output V.S.W.R	2.0 Max
GPS part size	12 x 12 x 13.50 mm
Weight	4g ± 0.5g
Mounting	SMT
Operating temperature	-40 — +85 ° C
Storage temperature	-40 — +105 ° C

# OUTLINE



**Unit:mm**

## Ordering codes

TYPE	Description	Comment
ADA-12RA-23	SMT GPS Antenna	GPS antenna module

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