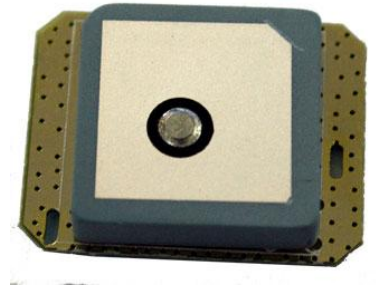


## AMC-ANTGPSAP17X4

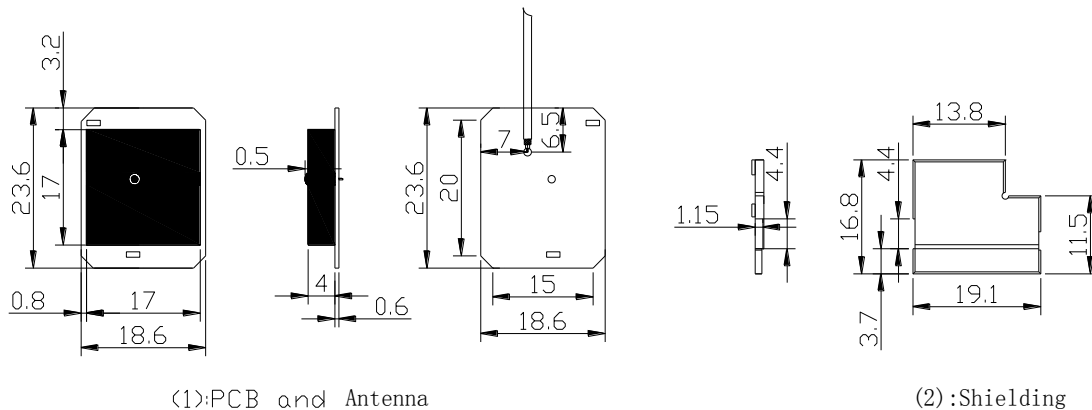
### Internal GPS Antenna

17MM x 17MM x 4 MM GPS ANTENNA MODULE WITH INTEGRATED LNA



## INTRODUCTION

The AMC-ANTGPSAP17X4 active antenna module is a small GPS patch antenna solution with integrated LNA. This module is intended to be embedded and is designed for direct connection to a GPS module or an onboard connector. It can be supplied in various cable lengths and RF connectors such as the U.FL and W.FL types.



| Characteristics      |                 |   |
|----------------------|-----------------|---|
| <b>Ceramic Patch</b> |                 |   |
| 1                    | Frequency Range | 1575.42MHz ± 1.02 MHz                     |
| 2                    | V.S.W.R         | 1.5:1                                     |
| 3                    | Band Width      | > 8 MHz                                   |
| 4                    | Impedence       | 50 ohm                                    |
| 5                    | Gain            | 2dBic Based on 5×5cm ground plane         |
| 6                    | Polarization    | RHCP                                      |
| <b>LNA</b>           |                 |   |
| 1                    | Frequency Range | 1575.42MHz ± 1.02 MHz                     |
| 2                    | DC Voltage      | 3 - 5V                                    |
| 3                    | Gain            | 26dB Nominal (Without cable +25°C ± 10°C) |
| 4                    | Output VSWR     | 2.0 Max                                   |
| 5                    | Noise Figure    | 1.5dB Typical (+25°C ± 10°C)              |
| 6                    | DC current      | 9-14mA @ 3.0V                             |

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| Ordering Information  |              |                |
|-----------------------|--------------|----------------|
| Part Number           | Cable length | Connector Type |
| AMC-ANTGPSAP17X4-G040 | 40mm         | U.FL           |
| AMC-ANTGPSAP17X4-G100 | 100mm        | U.FL           |
| AMC-ANTGPSAP17X4-G220 | 220mm        | U.FL           |
| AMC-ANTGPSAP17X4-G270 | 270mm        | U.FL           |