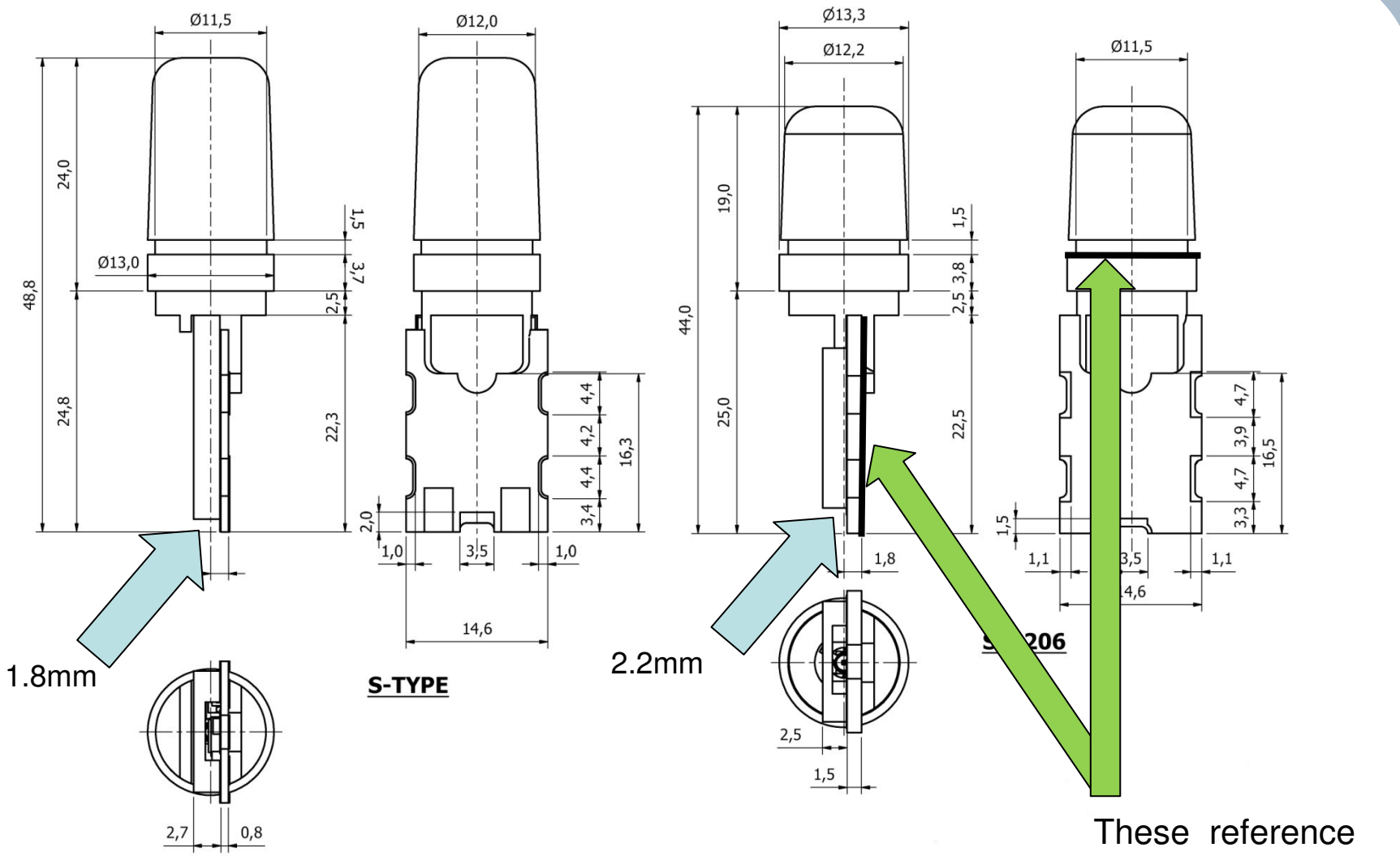
The SL1206 replaces
the
GeoHelix ‘S’

Drawing Comparison



Design Changes

Mechanical

- The antenna axis centreline to the PCB pads remain unaltered.
- Also unchanged the relationship between the PCB pads to the groove in the radome.
- 9.8% size reduction in the overall length of the SL1206 antenna
- 11.7% weight reduction from 10.2g to 9.0g
- The radome is manufactured from a Cycloy material and has a glossy finish
- The screening can height above the antenna centreline has increased by 0.4mm from 1.8mm to 2.2mm.
- PCB thickness increased from 0.8mm to 1.5mm
- LCP holder is a different shape to allow element attachment.

Design Changes

Electrical

The electrical improvement in this refreshment have been achieved by the stability of the impedance of the SL1200 element.

The improved match to the 1st stage amplifier have the following benefits:

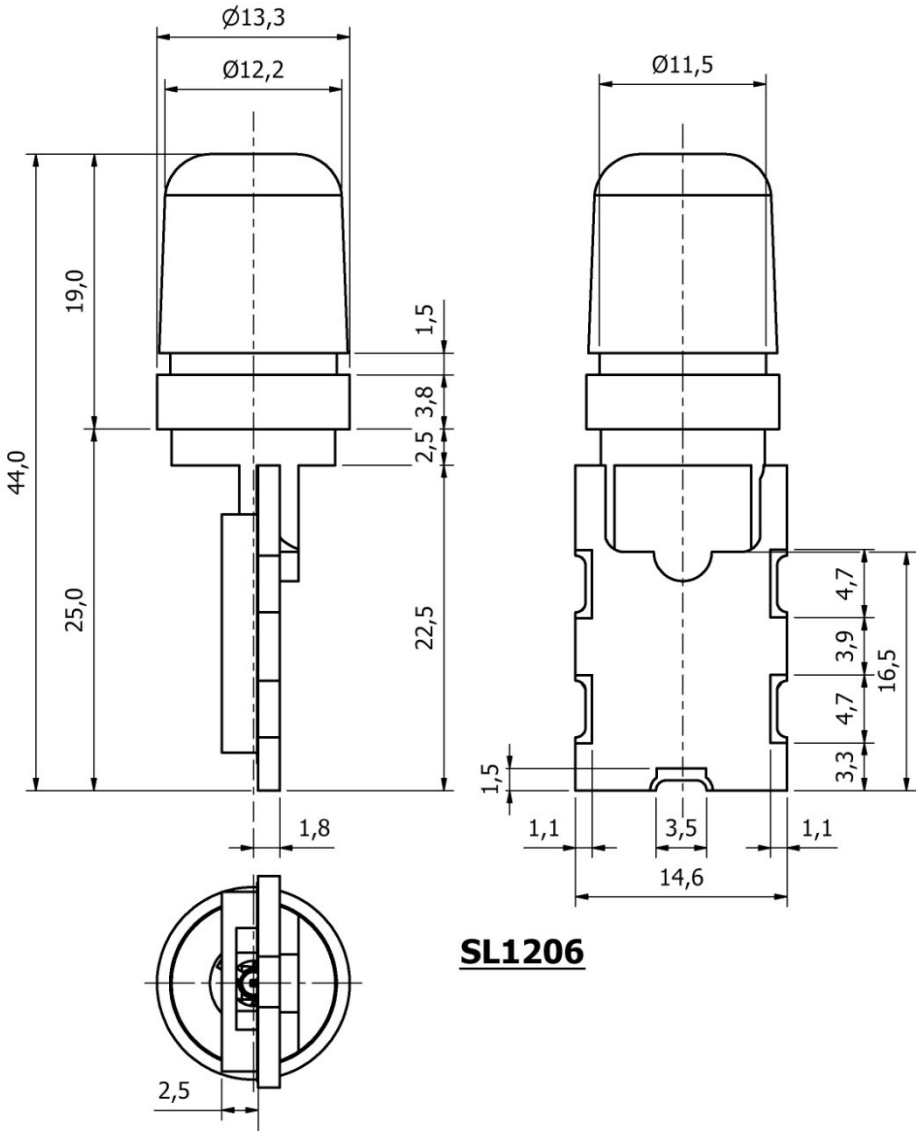
- Reduced variation in gain.
- Improved device Noise Figure variation, achieved by the more consistent impedance having a better fit to the optimum noise circle.

The current consumption is reduced in this version.

- current consumption – 13mA at 3.3V

Samples will be available in End Jan 09 to mid Feb 09

Drawing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Ø11,5
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SL1206