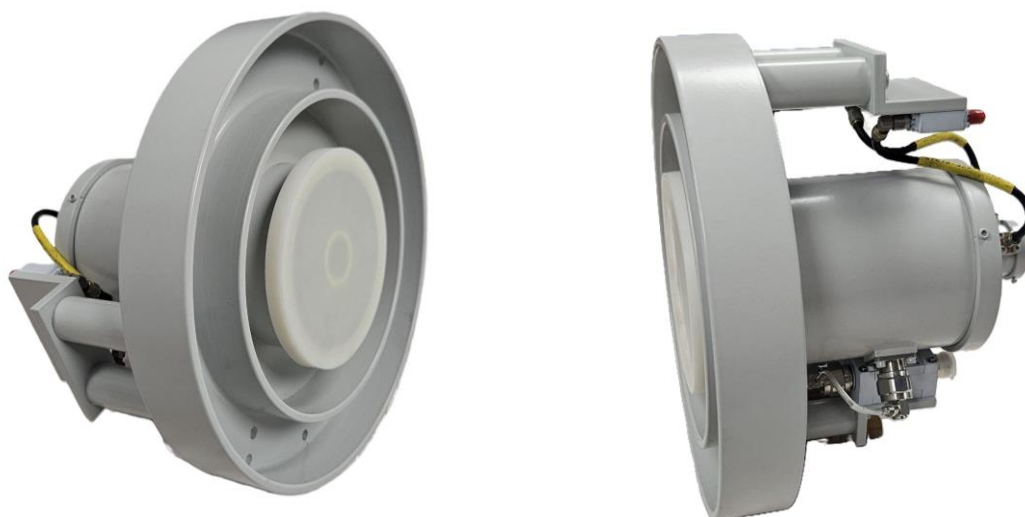


MODEL NUMBER: POAM-SXF-2G8G4P



## Overview

The **POAM-SXF-2G8G4P** is a high-performance dual-band feed system engineered for simultaneous transmit and receive (TX/RX) operation in the S-band (2.0–2.3 GHz) and X-band (8.0–8.5 GHz). Designed with ruggedised construction and optimised for low insertion loss and high isolation between bands, it is well-suited for mission-critical applications such as telemetry, tracking, and satellite communications requiring concurrent multi-band operation.

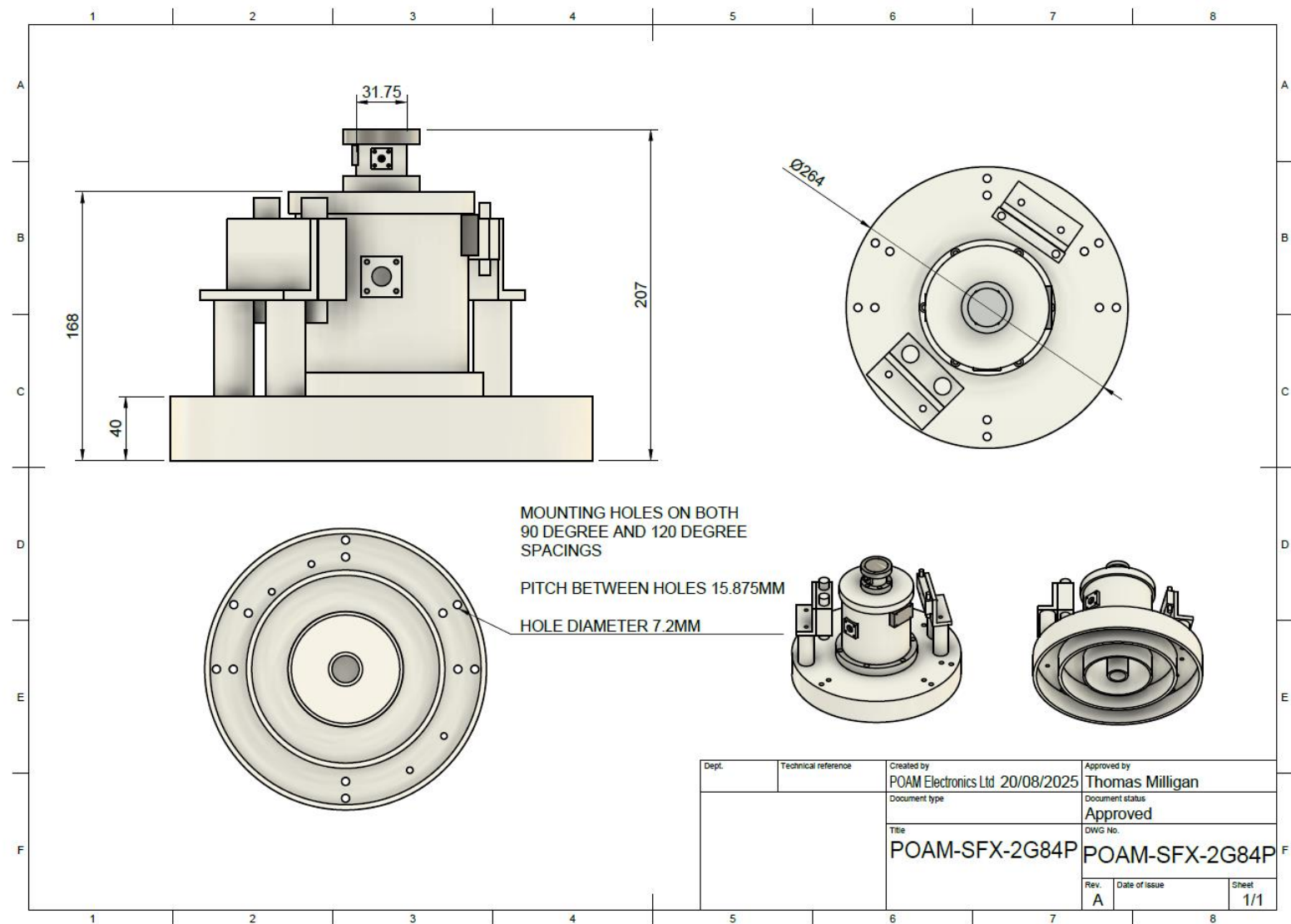
## Features

- S- Band reception in RHCP
- S- Band transmission in RHCP
- X- Band reception in RHCP
- X- Band reception in LHCP
- Heavy-duty aluminium enclosure
- Suitable for a Prime focus dish with  $F/D = 0.37$  to  $0.40$

## Specifications:

<b>Product name</b>	Dual S-and X-Band Feed (four ports)
<b>Model</b>	POAM-SXF-2G8G4P
<b>S-Band Frequency</b>	Rx/Tx: 2015 - 2300 MHz LHCP Rx/Tx: 2015 - 2300 MHz RHCP
<b>X-Band Frequency</b>	Rx.: 8025 to 8400 MHz LHCP Rx.: 8025 to 8400 MHz RHCP
<b>Port isolation</b>	S-Band 45 dB X-Band 45 dB
<b>Polarisation</b>	S-Band LHCP and RHCP (Simultaneous) X-Band LHCP and RHCP (Simultaneous)
<b>Temperature</b>	-40°C~+70 °C
<b>Storage temperature</b>	-50°C~+80 °C
<b>VSWR</b>	Rx.: ≤1.8 (for both S and X Bands)
	Tx.: ≤1.8 (S-Band)
<b>Power capability in S-Band TX</b>	500W
<b>RF interface</b>	S-Band N-Type (female)
	X-Band SMA-Type (female)
<b>Operational wind</b>	75 kmph
<b>Survival wind</b>	180 kmph
<b>Protection level</b>	IP 67
<b>Suitable Feed type</b>	Prime Focus with f/d = 0.35 to 0.42
<b>Total weight</b>	Less than 3kg
<b>LNA Gain- 2X in X-Band and 1X in S-Band</b>	30 to 40dB
<b>Noise Figure</b>	S-Band; less than 2 dB
	X-Band; less than 5 dB
<b>Supply voltage</b>	5 VDC
<b>Optional SSPA (Solid State Power Amplifier) in S-Band</b>	If you required SSPA please contact us for more information and datasheet.

Drawing:



## Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

Web: [www.poamelectronics.com](http://www.poamelectronics.com)

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**Each unit is securely packaged in a durable, impact-resistant carry case to ensure maximum protection during transport and handling.**



Data Sheet Rev. A2, Aug 2025 Subject to change without notice.

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