Cerus 32

Filtronic's range of E-band SSPA amplifiers provide market leading linear mmW power. Available in single to N-way configurations, the power amplifiers deliver unparalleled performance for long range EBand communications.

Features

- 71-76GHz and 81-86GHz High Power Amplifiers
- Saturated powers up to >22W
- High linearity supports 256QAM modulation
- Wide 5GHz bandwidth
- >20dB gain
- Suitable for military, commercial & Satcom applications



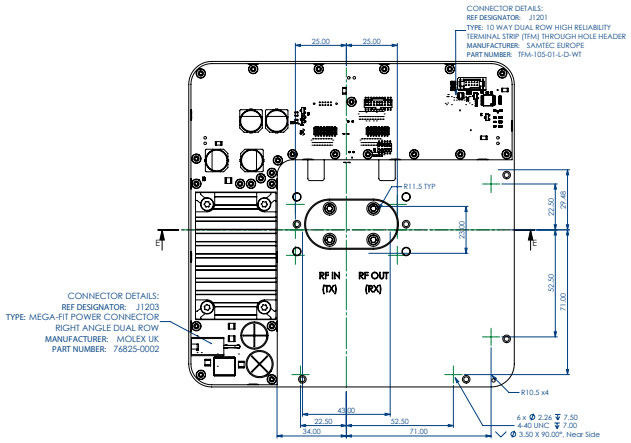
AA029 Outline Specification

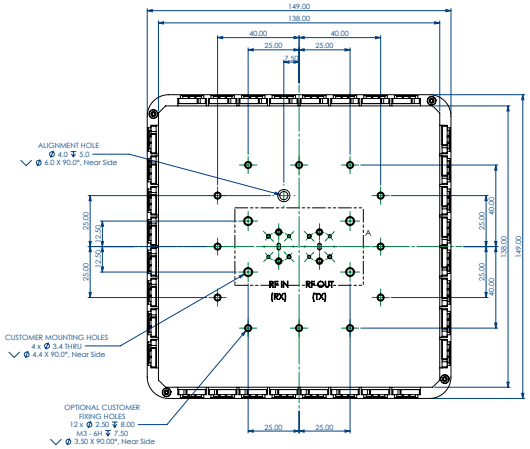
Parameter	Min	Typ.	Max	Units
Frequency	71		76	GHz
Bandwidth	5			GHz
Small Signal Gain		22		dB
P_{sat} [dBm]		43.5		dBm
P_{sat} [W]		22		W
OIP3 @ 37dBm		48		dBm
Supply Voltage	32	48	60	V
Supply Current @ 48V		7.9		A
Size		149 × 149 × 80		mm
Weight		2100		grams

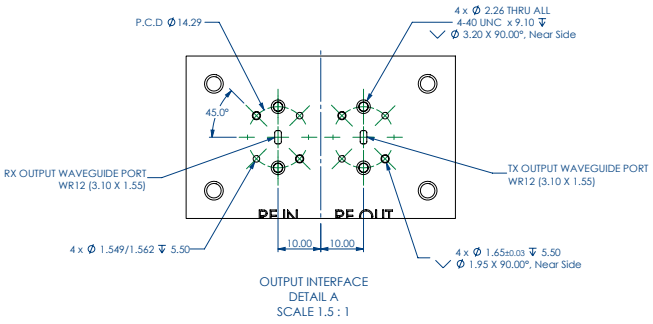
AA030 Outline Specification

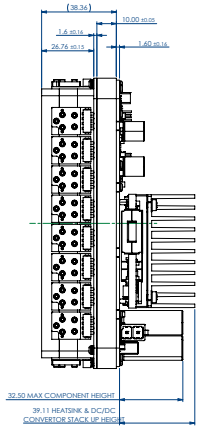
Parameter	Min	Typ.	Max	Units
Frequency	81		86	GHz
Bandwidth	5			GHz
Small Signal Gain		21.5		dB
P_{sat} [dBm]		43		dBm
P_{sat} [W]		20		W
OIP3 @ 37dBm		47		dBm
Supply Voltage	32	48	60	V
Supply Current @ 48V		7.9		A
Size		149 × 149 × 80		mm
Weight		2100		grams

AA029/AA30 Interface Specification









Connector J1203 pin-out

Pin NO.	Name	Type	Description
1	48V	Power input	48V input supply
2	GND (Isolated)	Ground	Ground

Connector J1201pin-out - Control interface

Pin NO.	Name	Type	Description
1	Amplifier Enable	Input	Set high for enable (3V3)
2	Do not connect		Do not connect
3	Amplifier Alarm	Output	Alarm when certain parameters are out of specification.
4	Do not connect		Do not connect
5	GND	GND	Ground
6	Do not connect		Do not connect
7	3V3	Power Input	3V3 DC input
8	Do not connect		Do not connect
9	Do not connect		Do not connect
10	Do not connect		Do not connect