

## 11 – 18GHz Low Noise Amplifier

### GaAs Monolithic Microwave IC in SMD leadless package

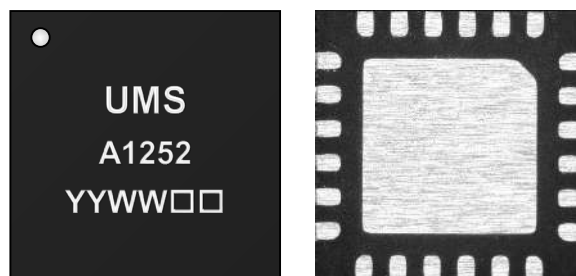
#### Description

The CHA1252-QDG is a three-stage Low Noise Amplifier operating in the 11 – 18GHz frequency band. This LNA typically presents low Noise Figure of 1.3dB associated to a small signal gain of 26dB.

It can provide up to 7dBm output power at 1dB gain compression and needs DC power supply of 2V/30mA. It is available in 4x4 plastic package.

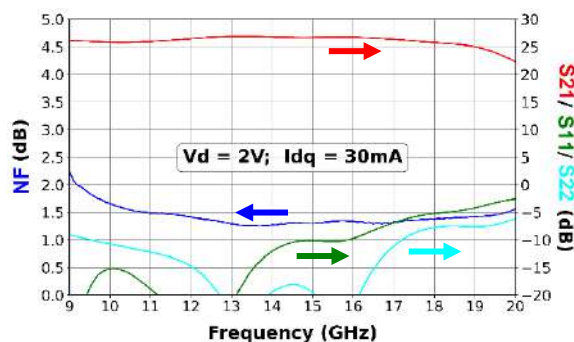
Designed for space applications, it is also ideal for a wide range of microwave systems.

This product is developed using a GaAs pHEMT process and is provided on low cost SMD RoHS compliant QFN plastic package.



#### Main Features

- Frequency range : 11 – 18 GHz
- Linear Gain : 26dB
- NF : 1.3dB
- OP1dB : 7dBm
- OIP3 : 18dBm
- DC bias: Vd = 2V @Idq = 30mA
- 24 Leads – QFN 4x4mm<sup>2</sup>
- MSL3



#### Main Electrical Characteristics

Test conditions : T<sub>case</sub> = 25°C, Vd = 2V, Idq = 30mA

Symbol	Parameter	Min	Typ	Max	Unit
Freq	Frequency range	11		18	GHz
Gain	Small signal Gain		26		dB
NF	Noise Figure		1.3		dB
P1dB	Output Power @1dB compression		7		dBm