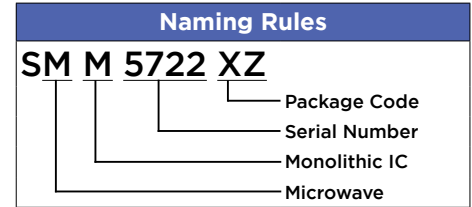


Ku to V Band Low Noise Amplifier MMICs

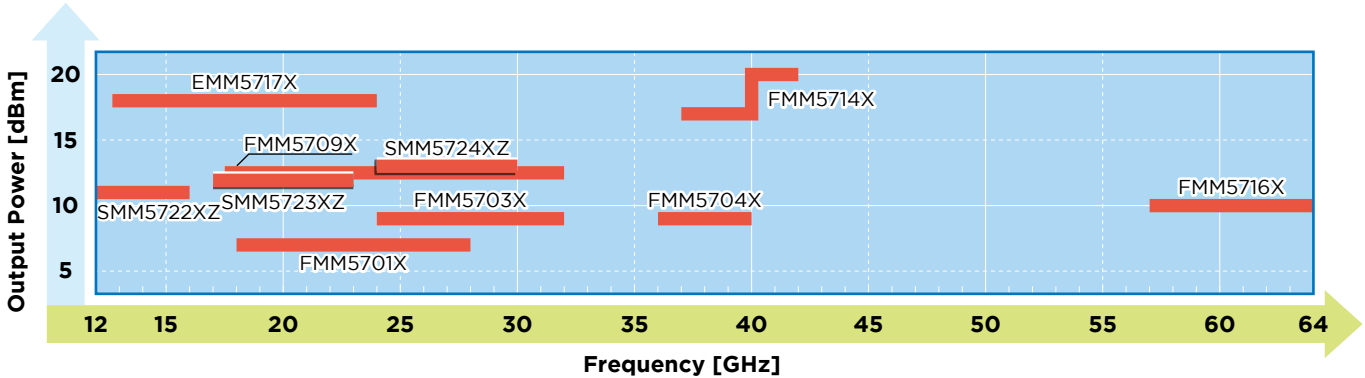
Sumitomo Electric provides GaAs Low Noise amplifier MMICs designed for VSAT and radio link receiver applications. The performance of low noise figure and high associated gain are achieved using pHEMT technology and EB lithography process. Sumitomo Electric has line-ups of MMIC products specified from Ku-band through V-band.

Features

- Input and Output Internally Matched $Z_{in}/Z_{out} = 50\Omega$
- Low Noise Figure
- High Gain
- Wide Band
- High Reliability Bare Die (X)
- Low Cost Surface Mount Device (XZ)
- RoHS Compliance (XZ)



Low Noise Amplifier MMIC Lineup



Specifications

| Part Number | Freq. (GHz) | P1dB (dBm) | Gas (dB) | IIP3 (dBm) | NF (dB) | VDD(DC) (V) | IDD (DC) (mA) | IDD(RF) (mA) | Package | Application |
|-------------|-------------|----------------------------|----------|------------|---------|-------------|---------------|--------------|---------|---------------------|
| SMM5722XZ | 12-16 | 11 | 20 | 5 | 2.3 | 5 | 30 | 30 | WLCSP | VSAT and Radio Link |
| EMM5717X | 12.7-24 | 18 | 23 | - | 2.5 | 3 | - | 180 | Die | |
| SMM5723XZ* | 17-23 | 12 | 20 | 4 | 2.7 | 5 | 35 | 35 | WLCSP | |
| FMM5709X | 17.5-32 | 12.5 | 23 | - | 2.5 | 3 | - | 60 | Die | |
| FMM5701X | 18-28 | 7 | 13.5 | - | 1.5 | 5 | 12 | 12 | Die | |
| SMM5724XZ* | 24-30 | 13 | 20 | 4 | 3.2 | 5 | 80 | 80 | WLCSP | |
| FMM5703X | 24-32 | 9 | 18 | - | 2 | 3 | 20 | 20 | Die | |
| FMM5704X | 36-40 | 9 | 18 | - | 2 | 3 | 20 | 20 | Die | |
| FMM5714X | 37-42 | 17(f=37GHz) 20(f=42GHz) | 22 | - | 3 | 3 | 200 | 200 | Die | |
| FMM5716X | 57-64 | 10 | 22 | - | 5 | 3 | 30 | 30 | Die | |

G.C.P.: Gain Compression Point *: Under Development
 Note: Tc=+25°C or Ta=+25°C

Product Photo

