

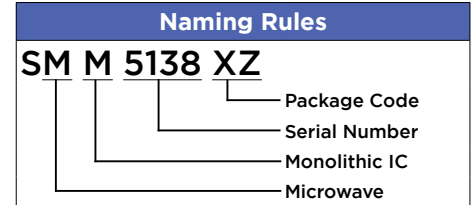
# Ku to Ka Band Converter MMICs

Sumitomo Electric provides Mixer MMICs that are designed for VSAT and radio link applications. These devices use an up-converter for the transmitter and a down-converter for the receiver.

These MMICs include a local buffer amplifier integrated on MMIC chip.

## Features

- Wide Frequency Range
- High Conversion Gain
- High Integrated
- Low Distortion
- Low Cost Surface Mount Device (XZ)
- Flip Chip Form (XZ)
- RoHS Compliance



## Specifications

Part Number	Freq. (GHz)	IF Freq. (GHz)	Gc (dB)	IIP3 (dBm)	LO-RF Isolation (dB)	VDD (V)	IDD (LO) (mA)	IDD (RF) (mA)	Package	Function
SMM5138XZ	12.7-15.4	DC-4	-12	22	30	5	35	35	WLCSP	Up Converter
SMM5139XZ	12.7-15.4	DC-4	10	2	30	5	-	75		Down Converter
SMM5145XZ	12.7-15.4	DC-2	-12	22	30	5	60	60		with Doubler, Up Converter
SMM5146XZ	12.7-15.4	DC-2	10	2	30	5	-	95		with Doubler, Down Converter
SMM5155XZ	12.7-15.4	DC-2	-12	22	25	5	80	80		with Doubler, Image-rejection Up Converter
SMM5141XZ*	17.7-23.6	DC-4	-12	22	-	5	100	100		with Doubler, Up Converter
SMM5142XZ	17.7-23.6	DC-4	10	2	30	5	100	135		with Doubler, Down Converter
FMM5116X	20-32	9.5-16.5	-10	23	-	5	100	140	Die	with Doubler, Up Converter
SMM5143XZ	24-30	DC-4	-12	24	-	5	100	100	WLCSP	with Doubler, Down Converter
SMM5144XZ	24-30	DC-4	12	2	30	5	-	210		with Doubler, Down Converter
SMM5150XZ	24-30	DC-4	-13	22	25	5	100	100		with Doubler, Image-rejection Up Converter
SMM5151XZ	31-34	DC-4	-13	22	30	5	125	125		with Doubler, Image-rejection Up Converter

\*: Under Development  
Note: Tc=+25°C

## Product Photo

