

RF Front-End Products for Ka/Ku-band

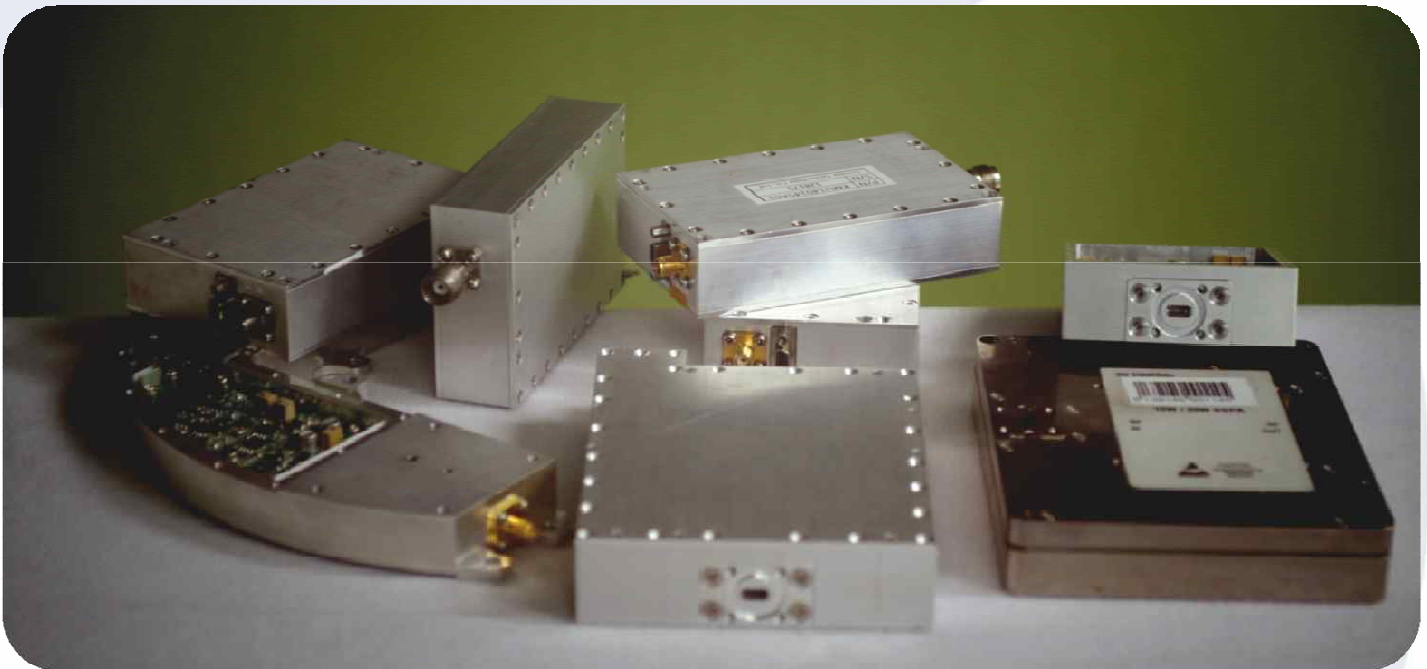
Applications

- Satellite Communications / VSAT
- In-flight Internet Broadband Access
- OTM(On-The-Move) terminals
- Man-Pack Terminals / Suitcase Terminals
- Drive-away / Fly-away / SNG

Features

- SSPAs / Block Up Converters / Block Down Converters / LNAs / LNBs / Filters
- Suitable for standard Ku-band / Ka-band Satellite
- Wideband performance by switchable LOs (1.5GHz bandwidth for Ka-band)
- High Power (up to 16Watt)
- Low Power Consumption
- High Reliability
- Aircraft / Military / Defense applicable

Genmix's state-of-the-art RF front-end products for Ka/Ku-band satellite provides the solution to the customers to find high performance with compact size and light weight especially in In-flight Broadband Access and OTM applications.



The specification subject to change without notice.

For the customized specification, price, and delivery ; Contact us

#1005, Woolim Lions Valley 3rd, 5445 Sangdaewon-dong, Jungwon-gu, Seoungnam-si, Gyeonggi-do 462-819, Korea
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RF Front-End Products for Ka/Ku-band

SSPA Key Specification

Frequency Band	Ku-band	Ka-band
Frequency Band	14 to 14.5 GHz	29.5 to 31 GHz
Output Power (P1dB)	40dBm min.	40dBm typ. / 42dBm typ.
Gain	35dB min.	35dB min.
In/Output connector	SMA / SMA	K / WR28
In/Out VSWR	1.5:1 / 1.5:1	1.5:1 / 1.8:1
Power Supply(V)	11.5 V DC	5V DC / higher voltage available
Power Consumption(W)	70W max	98W max.(40dBm model)

Block Up Converter Key Specification

Frequency Band	Ku-band	Ka-band
IF Input Frequency	950 to 1450MHz	950 to 1450MHz
RF Output Frequency	14.0 to 14.5GHz	29.5 to 31GHz
Gain	18 to 23dB	24 to 29dB
Output Power	OP1dB: +18dBm Min	OP1dB: +18dBm Min.
Power Supply	+11.5V, 800mA max.	+18V, 1000mA max.
Phase Noise	-56dBc/Hz @ 100Hz	-57dBc/Hz @ 100Hz
	-72dBc/Hz @ 1KHz	-72dBc/Hz @ 1KHz
	-83dBc/Hz @ 10KHz	-75dBc/Hz @ 10KHz
	-90dBc/Hz @ 100KHz	-92dBc/Hz @ 100KHz
	-100dBc/Hz @ 1MHz	-102dBc/Hz @ 1MHz
Dimension	102(L)x64(W)x25.4(H)mm	102(L)x64(W)x25.4(H)mm

Block Down Converter Key Specification

Frequency Band	Ku-band/Extended	Ka-band/Extended
RF Input Frequency	11.55 to 12.75GHz/10.95 to 11.7GHz	19.7 to 21.2GHz/19.2 to 21.2GHz
IF Output Frequency	950 to 2150MHz	950 to 1950MHz
Gain	30 to 35dB	23 to 27dB
Power Supply	+11.5V, 800mA max.	+18V, 500mA max.
Phase Noise	-56dBc/Hz @ 100Hz	-57dBc/Hz @ 100Hz
	-72dBc/Hz @ 1KHz	-72dBc/Hz @ 1KHz
	-83dBc/Hz @ 10KHz	-75dBc/Hz @ 10KHz
	-90dBc/Hz @ 100KHz	-92dBc/Hz @ 100KHz
	-100dBc/Hz @ 1MHz	-102dBc/Hz @ 1MHz
Dimension	102(L)x64(W)x25.4(H)mm	102(L)x64(W)x25.4(H)mm

LNA Key Specification

Frequency Band	Ku-band	Ka-band
Frequency	11.55 to 12.75GHz	19.7 to 21.2GHz
Gain	30 to 35dB	40 to 45dB
Noise Figure	1.2dB max. @25°C	2.0dB max. @25°C
Output Power (OP1dB)	+5dBm min.	+5dBm min.
Max Input Power	+10dBm with no damage	+10dBm with no damage
Power Supply	+12V, 150mA max.	+12V, 150mA max.
Dimension	70(L)x38(W)x38(H)mm	66(L)x36(W)x28(H)mm

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