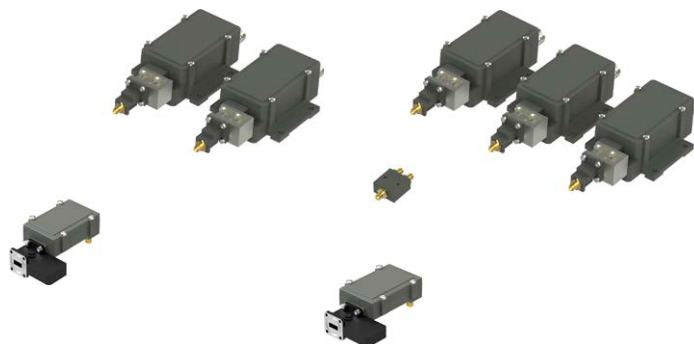




Receives two/three Ka-Bands simultaneously

The Ka-Band Dual/Triple Systems consists of Ka LNA Wideband with waveguide isolator, Ka splitter (Triple), Ka BDC's with waveguide isolators and matched Ka cables. Comes standard with Low Phase Noise to meet DVB-S2X Professional services profile.

Options include customized LO, customized frequency ranges, customized gain, separate DC power input and separate input for the external 10 MHz reference.



Features

- Wide frequency range
- Choose between Internal Ref. or External Ref. input models
- Ultra Low Phase Noise
- High P1dB and IP3
- Wide operating temperature range

TECHNICAL SPECIFICATIONS

MODEL:	DUAL BAND SYSTEM 18.20 - 20.20 GHz		TRIPLE BAND SYSTEM 17.70 - 21.30 GHz		
Input Frequency	18.20-19.20 GHz	19.20-20.20 GHz	17.70-18.90 GHz	18.90-20.10 GHz	20.10-21.30 GHz
LO Frequency	17.25 GHz	18.25 GHz	16.75 GHz	17.95 GHz	19.15 GHz
Output Frequency	950-1950 MHz	950-1950 MHz	950-2150 MHz	950-2150 MHz	950-2150 MHz
Gain	63 dB typ.				
Flatness	±0.4 dB max. within 30 MHz ±2 dB max. over each band				
Noise Figure / Noise Temperature	1.8 dB / 149 K typ.				
Phase Noise	-40 dBc @ 10 Hz -65 dBc @ 100 Hz -85 dBc @ 1 kHz -90 dBc @ 10 kHz -95 dBc @ 100 kHz -112 dBc @ ≥1 MHz typ.				
Image Rejection	30 dB min.				
Output P1dB	+15 dBm typ.				
Output IP3	+25 dBm typ.				
Output VSWR	2.1:1 typ.				
Output Connector	F-type 75Ω / N-type 50Ω / SMA-type 50Ω				
Input LNA	Waveguide WR 42 / R 220. Flange PBR 220.				
Input BDC	SMA-type 50Ω				
Input VSWR LNA	1.20:1 max. with isolator				
LO Leakage	-60 dBm @ RF input				
Internal Ref. Stability	±1 ppm -40 to +60°C (±1.5 ppm -40 to +80°C) / ±2.5 ppm -40 to +60°C (±3.5 ppm -40 to +80°C)				
External 10 MHz Ref.	Level: -15 to +5 dBm. Supplied through output connector (with no ext. 10 MHz ref. present LO shifts -20 ppm)				
DC Input BDC	+15 to +24 V, Supplied through output connector				
Power BDC	5 W typ.				
Dimensions BDC	178 x 80 x 44 mm (F- & SMA-connector)		184 x 80 x 44 mm (N-connector) (for drawing, see www.smw.se)		
Weight BDC	399 g (F- & SMA-connector)		418 g (N-connector)		
DC Input LNA	+12 to +24 V / 110 mA typ. Supplied through separate SMA connector (bottom side)				
Power LNA	1.32 W @ 12VDC 2.64 W @ 24VDC typ.				
Dimensions LNA	100 x 47 x 34 mm (for drawing, see www.smw.se)				
Weight LNA	154 g				
Temperature Range	-40 to +80°C				
Options	Customized LO frequencies, input and IF ranges, gain and variation, separate 10 MHz ref. input.				



Example Ka-Band Dual System configurations					
P/N (x = connector type F, N or SMA)	Frequency range (GHz)	BDC	LO	Ka-band (GHz)	L-band (MHz)
55520x (± 2.5 ppm) 55620x (±1 ppm) 55720x (ext. 10 MHz)	18.20 - 20.20	1	17.20	18.20-19.20	950-1950
		2	18.20	19.20-20.20	950-1950
55521x (± 2.5 ppm) 55641x (±1 ppm) 55741x (ext. 10 MHz)	18.20 - 20.20	1	17.25	18.20-19.20	950-1950
		2	18.25	19.20-20.20	950-1950

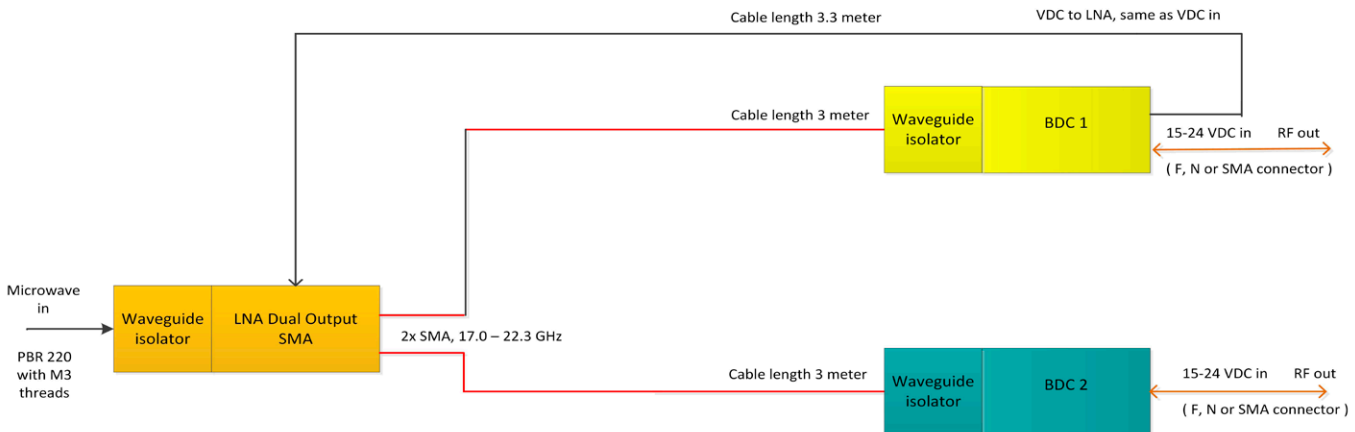
Example Ka-Band Triple System configurations					
P/N (x = connector type F, N or SMA)	Frequency range (GHz)	BDC	LO	Ka-band (GHz)	L-band (MHz)
55551x (± 2.5 ppm) 55651x (±1 ppm) 55751x (ext. 10 MHz)	17.70 - 20.10	1	16.75	17.70-18.90	950-2150
		2	19.15	20.10-21.20	950-2050
		3	17.95	18.90-20.10	950-2150
55641x (±1 ppm) 55741x (ext. 10 MHz)	17.30 - 19.70	1	16.35	17.30-18.50	950-2150
		2	18.75	19.70-20.90	950-2150
		3	17.55	18.50-19.70	950-2150

NOTE P/N: x = "0" for F connector, "5" for N connector and "8" for SMA connector

Ka Dual Band system



NOTE: Cable lengths are fixed due to best performance of this system. If other cable lengths are needed, please contact us first. Read our Product catalogue for more technical details.



Ka Triple Band system



NOTE1: Cable lengths are fixed due to best performance of this system. If other cable lengths are needed, please contact us first. Read our Product catalogue for more technical details.

NOTE2: Frequency bands are not in order for BDC 2 & 3.

