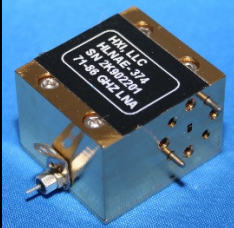
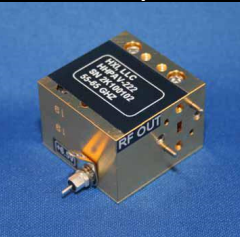


HXI QUICK SHIP PRODUCTS

We can ship these products in 1 to 2 weeks!

Low Noise Amplifiers					
	Frequency (GHz)	Input/Output	Noise Figure (dB) typical	Gain (dB) typical	P _{1dB} (dBm) typical
HLNAV-364	50.0 - 65.0	WR-15 / UG-385/U	5.2	25	+10
HLNAV-262	55.0 - 65.0	WR-15 / UG-385/U	4.8	16	+10
HLNAV-361	57.0 - 66.0	WR-15 / UG-385/U	5.0	28	+10
HLNAE-513	71.0 - 76.0	WR-12 / UG-387/U	5.8	11	+3
HLNAE-270	71.0 - 76.0	WR-12 / UG-387/U	5.8	28	+3
HLNAE-514	81.0 - 86.0	WR-12 / UG-387/U	5.8	11	+3
HLNAE-139	81.0 - 86.0	WR-12 / UG-387/U	5.8	20	+3

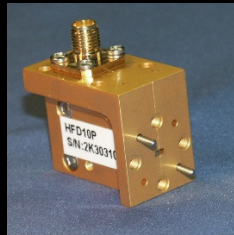
Power Amplifiers				
	Frequency (GHz)	Input/Output	P _{1dB} (dBm) typical	Gain (dB) typical
HHPAV-222	55.0 - 65.0	WR-15, UG-385/U	+14	25
HHPAV-302	57.0 - 66.0	WR-15, UG-385/U	+14	16
HHPAV-330	57.0 - 66.0	WR-15, UG-385/U	+14	25
HHPAE-496	71.0 - 76.0	WR-12, UG-387/U	+24	36

Active Frequency Multipliers						
	Input/Output Frequency (GHz)	Mult Factor	Input Connector	P _{IN} (dBm)	Typical Output Power	Output Connector
HAFMV4-244	13.0-15.25 / 52.0-61.0	X4	2.9 mm F	+10	+13	WR-15 / UG-385/U
HAFMV4-136	14.25-16.5 / 55.0-65.0	X4	2.9 mm F	+7	+13	WR-15 / UG-385/U
HAFMV4-321	14.25-16.5 / 57.0-66.0	X4	2.9 mm F	+7	+12	WR-15 / UG-385/U

Balanced Mixers						
	Frequency Range (GHz)	Waveguide	Contact factory with your RF, LO and IF frequencies to receive a quote and specifications			
HBM15 V-Band	50.0 - 75.0	WR - 15				
HBM12 E-Band	60.0 - 90.0	WR - 12				
E-Band Integrated Mixer/LO Multipliers	Frequency Range (GHz)	LO Input Frequency (GHz)	IF Output Frequency (GHz)	Conversion Loss	Lo Input Level	DC Bias
HBM12X-X4-373	71.0 – 76.0	16.5	5 – 10	6 dB typ	+12 dBm nominal	+6 VDC @ 400 mA typ
HBM12X-X4-XXX	76.0 – 81.0	17.75	5 – 10	6.5 dB typ	+12 dBm nominal	+6 VDC @ 400 mA typ
HBM12X-X4-372	81.0 – 86.0	19.75	5 – 10	6.5 dB typ	+12 dBm nominal	+6 VDC @ 400 mA typ
HBM1X2-X6-XXX	81.0 – 86.0	12.67	5 – 10	6.5 dB typ	+12 dBm nominal	+6 VDC @ 400 mA typ

3- Port Harmonic Mixers


	Frequency Range (GHz)	Waveguide	Standard Flange	Conversion Loss (dB) typical
HHM28 Ka-Band	26.5 - 40.00	WR - 28	UG-599/U	20 (X-Band LO)
HHM15 V-Band	50.0 - 75.0	WR - 15	UG-385/U	29 (X-Band LO)
HHM12 E-Band	60.0 - 90.0	WR - 12	UG-387/U	32 (X-Band LO)
HHM10 W-Band	75.0 - 110.0	WR - 10	UG-387/U-M	35 (X-Band LO)

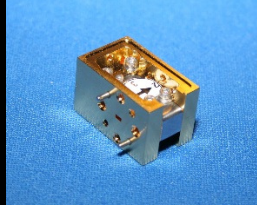
Broadband Detectors


	Frequency Range (GHz)	Waveguide	Standard Flange	Voltage Sensitivity MV/mW (min)	Maximum Flatness (dB)
HFD28 Ka-Band	26.5 - 40.0	WR - 28	UG-599/U	1000	+/- 2.0
HFD15 V-Band	50.0 - 75.0	WR - 15	UG-385/U	800	+/- 2.0
HFD12 E-Band	60.0 - 90.0	WR - 12	UG-387/U	500	+/- 2.5
HFD10 W-Band	75.0 - 110.0	WR - 10	UG-387/U-M	400 to 95 GHz 300 above 95 GHz	+/- 2.5
HFD08 F-Band	90.0 - 140.0	WR - 8	UG-387/U-M	300@94 GHz 80@140 GHz	

High Power Switch


	Frequency Range (GHz)	Isolation	Insertion Loss	Power Handling	Switching Speed	Bias
HSWM22801-309	26.5 - 40.0	30 dB min, 38 dB typ	1.3 dB, 1.8 dB Max	41 dBm, (10W) Max	30ns typ	+5V @ 35mA, -25V @ 1mA typ

*Any 2 – 3 GHz bandwidth in the listed frequency range

Isolators						
	Frequency Range (GHz)	Waveguide	Standard Flange	Insertion Loss (dB)	Isolation (dB)	CW Power Handling
HMI28 Ka-Band	26.5 - 40.0 *	WR - 28	UG-599/U	0.4	20	1 watt
HMI19 U-Band	40.0 - 60.0 *	WR - 19	UG-599/U	0.5	20	1 watt
HMI15 V-Band	50.0 - 75.0 *	WR - 15	UG-385/U	0.7	20	0.5 watts
HMI12 E-Band	60.0 - 90.0 *	WR - 12	UG-387/U	0.8	20	0.5 watts
HMI10 W-Band	75.0 - 110.0 *	WR - 10	UG-387/U-M	0.8	18	0.5 watts
Wideband Application Specific Isolators						
HMI15-385-60.5-7.0	57.0 – 64.0	WR – 15	UG-385/U	1.0	14	0.5 watts
HMI12-387-73.5-5.0	71.0 – 76.0	WR – 12	UG – 387/U	1.0	16	0.5 watts
HMI10-387-79.0-4.0	77.0 – 81.0	WR – 10	UG-387/U-M	0.9	16	0.5 watts
HMI12-387-83.5-5.0	81.0 – 86.0	WR – 12	UG-387/U	1.0	16	0.5 watts
HMI10-387-94.0-4.0	92.0 – 96.0	WR – 10	UG-387/U-M	0.8	18	0.5 watts

Circulators						
	Frequency Range (GHz)	Waveguide	Standard Flange	Insertion Loss (dB)	Isolation (dB)	CW Power Handling
HMC28 Ka-Band	26.5 - 40.0 *	WR - 28	UG-599/U	0.4	20	1 watt
HMC19 U-Band	40.0 - 60.0 *	WR - 19	UG-599/U	0.5	20	1 watt
HMC15 V-Band	50.0 - 75.0 *	WR - 15	UG-385/U	0.7	20	0.5 watts
HMC12 E-Band	60.0 - 90.0 *	WR - 12	UG-387/U	0.8	20	0.5 watts
HMC10 W-Band	75.0 - 110.0 *	WR - 10	UG-387/U-M	0.8	18	0.5 watts