



SATCOM

A GLOBAL LEADER OF SATCOM SOLUTIONS

A comprehensive line of products for S, C, X, Ku, Ka and Q-band are available as off-the-shelf items or custom-made design upon request. These products are specialized in mobility environment such as portable, vehicle-mount, maritime and airborne applications. We serve the customers in more than 20 countries located in all the continents with fully field proven products for more than a decade.

PRODUCT CATALOG

CONNECTING THE EARTH TO SPACE

XMW facilitates communication in the Earth and Space
with innovative SATCOM, RADAR, and wireless technologies.

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Ka-band 80W BUC (29.5-30.0, 29.0-30.0, 30.0-31.0 GHz)



Ka Tri-band 80W BUC



Ka Dual-band 80W BUC



Ka-band 80W BUC

Ka Single / Dual-band BUC Series (29.5-30.0, 29.0-30.0, 29.0-31.0 GHz)



Ka Single/Dual-band
8/10W BUC



Ka Single/Dual-band
16/20W BUC



Ka Single/Dual-band
30/40W BUC

Ka Tri / Quad-band BUC Series (27.5-28.5, 28.5-29.5, 29.0-30.0, 30.0-31.0 GHz)



Ka Tri/Quad-band
8/10W BUC



Ka Tri/Quad-band
16/20W BUC



Ka Tri/Quad-band
30/40W BUC

Ka-band BUC for O3b (27.652-29.071 GHz)



Ka Single/Dual-band
8/10W BUC, O3b



Ka Single/Dual-band
16/20W BUC, O3b



Ka Single/Dual-band
30/40W BUC, O3b



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Ka-band BUC Product Selection Guide

Products	Category	Part No.	Input Frequency	LO Frequency	Output Frequency	Output Power	Phase Noise @1KHz	Gain	DC Power	Dimension Weight
Ka Single-band 10W BUC	O3b	T2710	1052 - 1788 MHz	26.60GHz	27.652 - 28.388 GHz	+40dBm (Psat)	-73dBc/Hz	65dB typ Δ15dB 0.5dB step	120W	256 x 180 x 113 mm / 4.0kg
		T2810	972 - 1871 MHz	27.20GHz	28.172 - 29.071 GHz					256 x 180 x 113 mm / 4.0kg
	Mobility	M-T27L10	950 - 1450 MHz	26.05GHz	27.00 - 27.50 GHz					
		M-T2910	950 - 1450 MHz	28.55GHz	29.50 - 30.00 GHz					
		M-T29E10	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
		M-T3010	1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Dual-band 10W BUC	O3b	TD2810	1052 - 1788 MHz	26.60GHz	27.652 - 28.388 GHz	+40dBm (Psat)	-73dBc/Hz	65dB typ Δ15dB 0.5dB step	120W	256 x 180 x 113 mm / 4.0kg
			972 - 1871 MHz	27.20GHz	28.172 - 29.071 GHz					222 x 150 x 94.5 mm / 3.2kg
	Mobility	M-TD3010	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
			1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Tri-band 10W BUC	Mobility	M-TT2910	950-1950 MHz	26.55GHz	27.50 - 28.50 GHz	+40dBm (Psat)	-73dBc/Hz	65dB typ Δ15dB 0.5dB step	120W	222 x 150 x 94.5 mm / 3.2kg
			950-1950 MHz	27.30GHz	28.25 - 29.25 GHz					
			950-1950 MHz	28.05GHz	29.00 - 30.00 GHz					
Ka Quad-band 16W BUC	Mobility	M-TQ3016	950-1450 MHz	28.05GHz	29.00 - 29.50 GHz	+42dBm (Psat)	-73dBc/Hz	68dB typ Δ15dB 0.5dB step	180W	222 x 150 x 105 mm / 3.5kg
			950-1450 MHz	28.05GHz	29.50 - 30.00 GHz					
			950-1450 MHz	28.05GHz	30.00 - 30.50 GHz					
			950-1450 MHz	28.05GHz	30.50 - 31.00 GHz					
Ka Single-band 20W BUC	O3b	T2720	1052 - 1788 MHz	26.60GHz	27.652 - 28.388 GHz	+43dBm (Psat)	-73dBc/Hz	68dB typ Δ15dB 0.5dB step	200W	280 x 160 x 110 mm / 5.5kg
		T2820	972 - 1871 MHz	27.20GHz	28.172 - 29.071 GHz					222 x 150 x 105 mm / 3.5kg
	Mobility	M-T2920	950 - 1450 MHz	28.55GHz	29.50 - 30.00 GHz					
		M-T29E20	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
		M-T3020	1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Dual-band 20W BUC	O3b	TD2820	1052 - 1788 MHz	26.60GHz	27.652 - 28.388 GHz	+43dBm (Psat)	-73dBc/Hz	68dB typ Δ15dB 0.5dB step	200W	280 x 160 x 110 mm / 5.5kg
			972 - 1871 MHz	27.20GHz	28.172 - 29.071 GHz					222 x 150 x 105 mm / 3.5kg
	Mobility	M-TD3020	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
			1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Tri-band 20W BUC	Mobility	M-TT2920	950-1950 MHz	26.55GHz	27.50 - 28.50 GHz	+43dBm (Psat)	-73dBc/Hz	68dB typ Δ15dB 0.5dB step	200W	222 x 150 x 105 mm / 3.5kg
			950-1950 MHz	27.30GHz	28.25 - 29.25 GHz					
			950-1950 MHz	28.05GHz	29.00 - 30.00 GHz					
Ka Single-band 40W BUC	O3b	T2740	1052 - 1788 MHz	26.60GHz	27.652 - 28.388 GHz	+46dBm (Psat)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	280W	280 x 180 x 120 mm / 6.5kg
		T2840	972 - 1871 MHz	27.20GHz	28.172 - 29.071 GHz					
	Mobility	M-T2940	950 - 1450 MHz	28.55GHz	29.50 - 30.00 GHz					
		M-T29E40	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
		M-T3040	1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Dual-band 40W BUC	O3b	TD2840	1052 - 1788 MHz	26.60GHz	27.652 - 28.388 GHz	+46dBm (Psat)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	280W	280 x 180 x 120 mm / 6.5kg
			972 - 1871 MHz	27.20GHz	28.172 - 29.071 GHz					
	Mobility	M-TD3040	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
			1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Tri-band 40W BUC	Mobility	M-TT2940	950-1950 MHz	26.55GHz	27.50 - 28.50 GHz	+46dBm (Psat)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	280W	280 x 180 x 120 mm / 6.5kg
			950-1950 MHz	27.30GHz	28.25 - 29.25 GHz					
			950-1950 MHz	28.05GHz	29.00 - 30.00 GHz					
Ka Quad-band 40W BUC	Mobility	M-TQ2940	950-1950 MHz	26.55GHz	27.50 - 28.50 GHz	+46dBm (Psat)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	320W	320 x 185 x 160 mm / 9kg
			950-1950 MHz	27.30GHz	28.25 - 29.25 GHz					
			950-1950 MHz	28.05GHz	29.00 - 30.00 GHz					
			950-1950 MHz	29.05GHz	30.00 - 31.00 GHz					
Ka Single-band 80W BUC	Mobility	M-T2980	950 - 1450 MHz	28.55GHz	29.50 - 30.00 GHz	+49dBm (Psat)	-73dBc/Hz	73dB typ Δ15dB 0.5dB step	600W	327 x 222 x 152 mm / 10kg
		M-T29E80	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz					
		M-T3080	1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Dual-band 80W BUC	Mobility	M-TD3080	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz	+49dBm (Psat)	-73dBc/Hz	73dB typ Δ15dB 0.5dB step	600W	327 x 222 x 152 mm / 10kg
			1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz					
Ka Tri-band 80W BUC	Mobility	M-TT2980	950-1950 MHz	26.55GHz	27.50 - 28.50 GHz	+49dBm (Psat)	-73dBc/Hz	73dB typ Δ15dB 0.5dB step	600W	327 x 222 x 152 mm / 10kg
			950-1950 MHz	27.30GHz	28.25 - 29.25 GHz					
			950-1950 MHz	28.05GHz	29.00 - 30.00 GHz					

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Ku-band BUC



Ku-band 8W BUC (Mini)



Ku-band 16W BUC (Mini)



Ku-band 8W BUC
Mobility



Ku-band 16W BUC
Mobility



Ku-band 25W BUC
Mobility



Ku-band 40/50W BUC



Ku-band 60W BUC



Ku-band 100W BUC

X-band BUC



X-band 10W BUC
Mobility



X-band 25W BUC
Mobility



X-band 60W BUC



X-band 100W BUC

C-band BUC



C-band 10W BUC
Mobility



C-band 20/30W BUC
Mobility



C-band 50W BUC



C-band 100W BUC



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BUC Product Selection Guide

Products	Category	Part No.	Input Frequency	LO Frequency	Output Frequency	Output Power	Phase Noise @1KHz	Gain	DC Power	Dimension Weight
Ku-band 8W BUC	Mini	MM-T1308G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+39dBm (Psat)	-75dBc/Hz	65dB typ Δ15dB 0.5dB step	50W	150 x 100 x 65 mm / 1.5kg
		MM-T1408G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
	Mobility	M-T1208	950 - 1450 MHz	11.80GHz	12.75 - 13.25 GHz	+39dBm (P1dB)	-73dBc/Hz	62dB typ Δ15dB 0.5dB step	85W	180 x 130 x 80 mm / 2.4kg
		M-T1308	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz					
		M-T1408	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
		M-T14E08	950 - 1700 MHz	13.05GHz	14.00 - 14.75 GHz					
Ku-band 16W BUC	Mini	MM-T1316G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+42dBm (Psat)	-75dBc/Hz	65dB typ Δ15dB 0.5dB step	100W	150 x 100 x 65 mm / 1.5kg
		MM-T1416G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
	Mobility	M-T1216	950 - 1450 MHz	11.80GHz	12.75 - 13.25 GHz	+42dBm (Psat)	-73dBc/Hz	65dB typ Δ15dB 0.5dB step	150W	180 x 130 x 80 mm / 2.4kg
		M-T1316	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz					
		M-T1416	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
Ku-band 25W BUC	Mobility	M-T1325G	950 - 1450 MHz	12.80GHz	13.75 - 14.50 GHz	+44dBm (Psat)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	180W	180 x 130 x 118 mm / 2.9kg
		M-T1425G	950 - 1700 MHz	13.05GHz	14.00 - 14.50 GHz					
Ku-band 40W BUC	Standard	M-T1240G	950 - 1450 MHz	11.80GHz	12.75 - 13.25 GHz	+46dBm (Psat)	-73dBc/Hz	73dB typ Δ15dB 0.5dB step	350W	280 x 160.6 x 150 mm / 8.0kg
		M-T1340G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz					
		M-T1440G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
Ku-band 50W BUC	Standard	T1350G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+47dBm (P1dB)	-73dBc/Hz	73dB typ Δ15dB 0.5dB step	380W	281.5 x 160.0 x 149.9 mm / 8.0kg
		T1450G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
Ku-band 60W BUC	Mobility	M-T1360G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+47.8dBm (Psat)	-73dBc/Hz	73dB typ Δ15dB 0.5dB step	350W	160 x 110 x 100 mm / 3.8kg
		M-T1460G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
Ku-band 100W BUC	Standard	T13100G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+50dBm (Psat)	-80dBc/Hz	80dB typ Δ15dB 0.5dB step	650W	305 x 193 x 149 mm / 13.0kg
		T14100G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz					
X-band 10W BUC	Mobility	M-T8010	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+40dBm (P1dB)	-73dBc/Hz	65dB typ Δ15dB 0.5dB step	90W	180 x 130 x 105 mm / 2.7kg
X-band 25W BUC	Mobility	M-T8025	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+44dBm (P1dB)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	200W	180 x 130 x 118 mm / 2.9kg
X-band 60W BUC	Standard	T8060G	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+47.8dBm (Psat)	-73dBc/Hz	70dB typ Δ15dB 0.5dB step	350W	280 x 160.6 x 150 mm / 8.0kg
X-band 100W BUC	Standard	T80100G	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+50dBm (Psat)	-75dBc/Hz	80dB typ Δ15dB 0.5dB step	480W	326 x 168 x 170 mm / 9.5kg
X-band 150W BUC	Standard	T80100G	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+52dBm (Psat)	-75dBc/Hz	80dB typ Δ15dB 0.5dB step	580W	345 x 168 x 170 mm / 11.0kg
C-band 10W BUC	Mobility	M-T5010G	950 - 1525 MHz	4.90GHz	5.850 - 6.425 GHz	+40dBm (P1dB)	-73dBc/Hz	65dB typ Δ15dB 0.5dB step	80W	180 x 130 x 80 mm / 2.4kg
		M-T5110G	950 - 1750 MHz	4.90GHz	5.850 - 6.650 GHz					
		M-T5210G	950 - 1825 MHz	4.90GHz	5.850 - 6.725 GHz					
		M-T5310G	950 - 1750 MHz	4.775GHz	5.725 - 6.525 GHz					
		M-T5410G	975 - 1475 MHz	4.75GHz	5.725 - 6.225 GHz					
		M-T6010G	950 - 1250 MHz	5.775GHz	6.725 - 7.025 GHz					
C-band 30W BUC	Mobility	M-T5030G	950 - 1525 MHz	4.90GHz	5.850 - 6.425 GHz	+45dBm (P1dB)	-73dBc/Hz	72dB max Δ15dB 0.5dB step	200W	180 x 130 x 118 mm / 2.9kg
		M-T5130G	950 - 1750 MHz	4.90GHz	5.850 - 6.650 GHz					
		M-T5230G	950 - 1825 MHz	4.90GHz	5.850 - 6.725 GHz					
		M-T5330G	950 - 1750 MHz	4.775GHz	5.725 - 6.525 GHz					
		M-T5430G	975 - 1475 MHz	4.75GHz	5.725 - 6.225 GHz					
		M-T6030G	950 - 1250 MHz	5.775GHz	6.725 - 7.025 GHz					
C-band 60W BUC	Standard	T5060	950 - 1525 MHz	4.90GHz	5.850 - 6.425 GHz	+47.8dBm (Psat)	-73dBc/Hz	73dB max Δ15dB 0.5dB step	400W	305 x 180 x 150 mm / 13kg
		T5160	950 - 1750 MHz	4.90GHz	5.850 - 6.650 GHz					
		T5260	950 - 1825 MHz	4.90GHz	5.850 - 6.725 GHz					
		T5360	950 - 1750 MHz	4.775GHz	5.725 - 6.525 GHz					
		T5460	975 - 1475 MHz	4.75GHz	5.725 - 6.225 GHz					
		T6060	950 - 1250 MHz	5.775GHz	6.725 - 7.025 GHz					
C-band 100W BUC	Standard	T50100G	950 - 1525 MHz	4.90GHz	5.850 - 6.425 GHz	+50dBm (Psat)	-82dBc/Hz	80dB typ Δ15dB 0.5dB step	420W	284.4 x 166.6 x 160 mm / 8.0kg
		T51100G	950 - 1750 MHz	4.90GHz	5.850 - 6.650 GHz					
		T52100G	950 - 1825 MHz	4.90GHz	5.850 - 6.725 GHz					
		T53100G	950 - 1750 MHz	4.775GHz	5.725 - 6.525 GHz					

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Ka-band LNB Product



Ka-band INT LNB
M-R9000I



Ka Dual-band INT LNB
RD9000I



Ka Tri-band INT LNB
RT9000I



Ka Quad-band INT LNB
RQ9000I



Ka Penta-band INT LNB
RP9000I



Ka-band EXT LNB
M-R9000X



Ka Dual-band EXT LNB
RD9000X



Ka Tri-band EXT LNB
RT9000X



Ka Quad-band EXT LNB
RQ9000X



Ka Penta-band EXT LNB
RP9000X



Ka-band Auto Ref LNB
R9000A



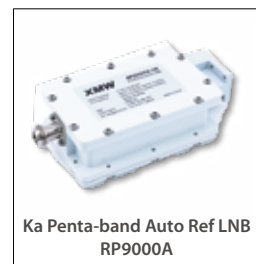
Ka Dual-band Auto Ref LNB
RD9000A



Ka Tri-band Auto Ref LNB
RT9000A



Ka Quad-band Auto Ref LNB
RQ9000A



Ka Penta-band Auto Ref LNB
RP9000A



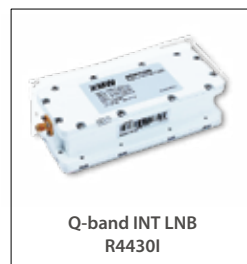
Ka Wide-band INT/EXT LNB
RW9018I / RW9018X



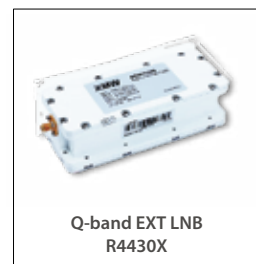
Ka Tx-band INT LNB
R2829I / R2830I



Ka Tx-band EXT LNB
R2829X / R2930X



Q-band INT LNB
R4430I



Q-band EXT LNB
R4430X

Ka-band LNA / BDC Product



Ka-band LNA
LA9000S



Ka Wide-band LNA
LA9000W



Ka-band INT BDC
BD9000I



Ka-band EXT BDC
BD9000X



Ka-band Auto Ref BDC
BD9000A



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Ka-band LNB Product Selection Guide

* Refer to the Ka Sub-band definition below. Any sub-bands are available.

Products	Part No.	Input Frequency	LO Frequency	LO Stability	NF	Phase Noise @1KHz	Gain
Ka-band INT LNB Ka-band EXT LNB	M-R9000XA*	18.20 - 19.20 GHz	17.25GHz	±10 / ±25 / ±50 KHz	1.5dB	-70dBc/Hz	58dB typ
	M-R9000XA*			Phase locked to Ext Ref			
Ka-band Auto Ref LNB	R9000A*	18.20 - 19.20 GHz	17.25GHz	Auto Switchable Ref (±10 / ±25 / ±50 KHz)	1.5dB	-70dBc/Hz	58dB typ
Ka Dual-band INT LNB Ka Dual-band EXT LNB	RD9000IAB*	Band 1: 18.20 - 19.20 GHz	17.25GHz	±10 / ±25 / ±50 KHz	1.5dB	-70dBc/Hz	58dB typ
	RD9000XAB*	Band 2: 19.20 - 20.20 GHz	18.25GHz	Phase locked to Ext Ref			
Ka Dual-band Auto Ref LNB	RD9000A-O3b	Band 1: 17.85 - 18.58 GHz	17.25GHz	Auto Switchable Ref (±10 / ±25 / ±50 KHz)	1.5dB	-70dBc/Hz	58dB typ
		Band 2: 18.37 - 19.30 GHz	20.25GHz				
Ka Tri-band INT LNB Ka Tri-band EXT LNB	RT9000I A3A4B2* RT9000X A3A4B2*	Band (A3): 17.30 - 18.30 GHz	16.35GHz	±10 / ±25 / ±50 KHz Phase locked to Ext Ref	1.6dB	-70dBc/Hz	65dB typ
		Band (A4): 18.30 - 19.30 GHz	17.35GHz				
		Band (B2): 19.30 - 20.20 GHz	18.35GHz				
		Band (B6): 19.30 - 20.30 GHz	18.35GHz				
Ka Tri-band Auto Ref LNB with Isolator	RT9315A-ISO	Band 1: 17.70 - 18.70 GHz	16.75GHz	±25KHz (1.5ppm) Phase locked to Ext Ref	1.5dB	-70dBc/Hz	55dB typ
		Band 2: 18.45 - 19.45 GHz	17.50GHz				
		Band 3: 19.20 - 20.20 GHz	18.25GHz				
Ka Quad-band INT LNB Ka Quad-band EXT LNB with Isolator(option)	RQ9000I RQ9000X	Band 1: 17.00 - 18.00 GHz	16.05GHz	±10 / ±25 / ±50 KHz Phase locked to Ext Ref	1.8dB	-70dBc/Hz	58dB typ
		Band 2: 18.00 - 19.00 GHz	17.05GHz				
		Band 3: 19.00 - 20.00 GHz	18.05GHz				
		Band 4: 20.00 - 21.00 GHz	19.05GHz				
Ka Quad-band Auto Ref LNB with Isolator(option)	RQ9000A	Band 1: 17.00 - 18.00 GHz	16.05GHz	Auto Switchable Ref (±10 / ±25 / ±50 KHz)	1.8dB	-70dBc/Hz	58dB typ
		Band 2: 18.00 - 19.00 GHz	17.05GHz				
		Band 3: 19.00 - 20.00 GHz	18.05GHz				
		Band 4: 20.00 - 21.00 GHz	19.05GHz				
Ka Penta-band INT LNB Ka Penta-band EXT LNB with Isolator(option)	RP9000I RP9000X	Band 1: 17.20 - 18.20 GHz	16.25GHz	±10 / ±25 / ±50 KHz Phase locked to Ext Ref	2.5dB	-70dBc/Hz	60dB typ
		Band 2: 18.20 - 19.20 GHz	17.25GHz				
		Band 3: 19.20 - 20.20 GHz	18.25GHz				
		Band 4: 20.20 - 21.20 GHz	19.25GHz				
		Band 5: 21.20 - 22.20 GHz	20.25GHz				
Ka Penta-band Auto Ref LNB with Isolator(option)	RP9000A	Band 1: 17.20 - 18.20 GHz	16.25GHz	Auto Switchable Ref (±10 / ±25 / ±50 KHz)	2.5dB	-70dBc/Hz	60dB typ
		Band 2: 18.20 - 19.20 GHz	17.25GHz				
		Band 3: 19.20 - 20.20 GHz	18.25GHz				
		Band 4: 20.20 - 21.20 GHz	19.25GHz				
		Band 5: 21.20 - 22.20 GHz	20.25GHz				
Ka Wide-band INT LNB Ka Wide-band EXT LNB	RW9018I	17.7 - 20.2 GHz	16.45GHz	±10 / ±25 / ±50 KHz	1.8dB	-70dBc/Hz	58dB typ
	RW9018X			Phase locked to Ext Ref			
Ka Tx-band INT LNB Ka Tx-band EXT LNB	R2829I	28.00 - 29.00 GHz 29.00 - 30.00 GHz	27.05GHz 28.05GHz	±10 / ±25 / ±50 KHz	5.5dB	-70dBc/Hz	45dB typ
	R2930X			Phase locked to Ext Ref			
Q-band INT LNB Q-band EXT LNB	R4430ID	40.5 - 41.0 GHz	39.55GHz	±1ppm	3.0dB	-70dBc/Hz	56dB typ
	R4430XD			Phase locked to Ext Ref			

Ka-band BDC Product Selection Guide

* refer to the Ka Sub-band definition

Products	Part No.	Input Frequency	LO Frequency	LO Stability	NF	Phase Noise @1KHz	Gain
Ka-band INT BDC	BD9000IA*	A: 18.20 - 19.20 GHz	17.25GHz	±10 / ±25 / ±50 KHz	18dB	-65dBc	25dB typ
Ka-band EXT BDC	BD9000XA*			Phase locked to Ext Ref			
Ka-band Auto Ref BDC	BD9000AA*			Auto Switchable Ref (±10 / ±25 / ±50 KHz)			

Ka-band LNA Product Selection Guide

* refer to the Ka Sub-band definition

Products	Part No.	Frequency	NF	In / Out VSWR	Output P1dB	Gain	Input WG
Ka-band LNA with Isolator(option)	LA9000A*	18.20 - 19.20 GHz	1.7dB	2.5:1 / 2.5:1	+5dBm	55dB	WR42
	LA9000W1	17.20 - 20.20 GHz	2.2dB	3.5:1 / 3.5:1	+5dBm	55dB	WR42
Ka Wide-band LNA	LA9000W2	17.20 - 21.20 GHz	2.5dB	4.0:1 / 4.0:1	+5dBm	55dB	WR42

Ka Sub-band Definition

Sub-band	RF Frequency	LO Frequency
A	18.20 - 19.20 GHz	17.25GHz
A0	17.70 - 18.95 GHz	16.75GHz
A1	17.30 - 17.80 GHz	16.35GHz
A2	18.30 - 18.80 GHz	17.35GHz
A3	17.30 - 18.30 GHz	16.35GHz
A4	18.30 - 19.30 GHz	17.35GHz
A5	18.20 - 19.30 GHz	17.25GHz
A6	17.80 - 19.00 GHz	16.85GHz
A7	17.30 - 18.60 GHz	16.85GHz
A8	18.60 - 19.10 GHz	17.65GHz
A9	17.80 - 18.60 GHz	16.85GHz
B	19.20 - 20.20 GHz	18.25GHz
B0	18.95 - 20.20 GHz	18.00GHz
B1	19.30 - 20.00 GHz	18.35GHz
B2	19.30 - 20.20 GHz	18.35GHz
B3	19.00 - 20.20 GHz	18.05GHz
B4	19.10 - 19.70 GHz	18.15GHz
B5	18.80 - 20.20 GHz	17.85GHz
B6	19.30 - 20.30 GHz	18.35GHz
B7	18.70 - 20.20 GHz	17.75GHz
B8	19.00 - 19.50 GHz	18.05GHz
C	20.20 - 21.20 GHz	19.25GHz
C1	20.20 - 21.20 GHz	19.20GHz
D	21.20 - 22.20 GHz	20.25GHz

Sub-band	RF Frequency	LO Frequency
E	21.40 - 21.70 GHz	20.45GHz
G	17.70 - 18.70 GHz	16.55GHz
G0	17.20 - 18.20 GHz	16.25GHz
G1	17.70 - 18.20 GHz	16.75GHz
G2	18.20 - 18.80 GHz	17.25GHz
G3	18.00 - 19.00 GHz	17.05GHz
G4	17.70 - 18.70 GHz	16.75GHz
G5	18.45 - 19.45 GHz	17.50GHz
H	18.85 - 19.45 GHz	17.90GHz
H1	18.50 - 19.50 GHz	17.55GHz
J	19.50 - 20.50 GHz	18.35GHz
J1	19.5 - 20.5 GHz	18.55GHz
K	19.80 - 20.20 GHz	18.85GHz
K1	19.70 - 20.50 GHz	18.75GHz
K2	19.70 - 20.45 GHz	18.75GHz
K3	19.20 - 20.20 GHz	16.90GHz
K4	19.70 - 20.70 GHz	18.75GHz
K5	19.70 - 20.20 GHz	18.75GHz
O3b-A	17.852 - 18.588 GHz	16.80GHz
O3b-B	18.372 - 19.300 GHz	17.40GHz
W1	17.2 - 20.2 GHz	
W2	17.2 - 21.2 GHz	
W3	17.8 - 19.3 GHz	14.00GHz

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Ku, X, C, S, L-band LNB / LNA / BDC Product



Ku-band INT / EXT LNB
M-R1000I / M-R1000X



Ku Dual-band INT / EXT LNB
M-RD1000I / M-RD1000X



Ku Tri-band INT / EXT LNB
M-RT1000I / M-RT1000X



Ku Tri-band INT / EXT LNB
M-RT1009X



Ku Quad-band INT / EXT LNB
M-RQ1000I / M-RQ1000X



Ku Simul-band INT / EXT LNB
RS1000I / RS1000X



Ku Wide-band INT / EXT LNB
RW1000I / RW1000X



Ku Tx-band INT / EXT LNB
R1314I / R1314X



X-band INT / EXT LNB
R7000I / R7000X



X-band Auto Ref LNB
R7000A



X Tx-band INT / EXT LNB
R8000I / R8000X



C-band INT LNB
R3000I-5G / R3000I-5GX



Ku-band LNA
LA1000W



X-band LNA
LA7000



C-band LNA
LA3000



S/L-band LNA
LA2000



Ku-band INT / EXT BDC
BD1000I / BD1000X



X-band INT / EXT BDC
BD8000I / BD8000X



C-band INT / EXT BDC
BD3000I / BD3000X



S-band INT / EXT BDC
BD2000I / BD2000X



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Ku/X/C-band LNB Product Selection Guide

* Refer to the frequency definition below. Any sub-bands are available.

Products	Part No.	Input Frequency	LO Frequency	LO Stability	NF	Phase Noise @1KHz	Gain
Ku-band INT LNB Ku-band EXT LNB	M-R1000IA* M-R1000XA*	Band (A): 11.70 - 12.20 GHz	10.75GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.7 / 0.8 / 0.9 dB	-75dBc/Hz	60dB typ
Ku Dual-band INT LNB Ku Dual-band EXT LNB	M-RD1000IC1A3* M-RD1000XC1A3*	Band (C1): 10.70 - 11.70 GHz	9.75GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.9dB	-70dBc/Hz	65dB typ
		Band (A3): 11.70 - 12.75 GHz	10.75GHz				
Ku Tri-band INT LNB Ku Tri-band EXT LNB	M-RT1000I M-RT1000X	Band 1: 10.95 - 11.70 GHz	10.00GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.8dB	-73dBc/Hz	63dB typ
		Band 2: 11.70 - 12.45 GHz	10.75GHz				
		Band 3: 12.25 - 12.75 GHz	11.30GHz				
		Band 1: 10.70 - 11.70 GHz	9.75GHz				
Ku Quad-band INT LNB Ku Quad-band EXT LNB	M-RQ1000I M-RQ1000X	Band 2: 10.95 - 11.70 GHz	10.00GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.8dB	-73dBc/Hz	63dB typ
		Band 3: 11.70 - 12.75 GHz	10.75GHz				
		Band 4: 12.25 - 12.75 GHz	11.30GHz				
		Band 1: 10.70 - 11.70 GHz	9.75GHz				
Ku Simul-band INT LNB Ku Simul-band EXT LNB	RS1000I-1 RS1000X-1 RS1000I-2 RS1000X-2	Band 2: 11.70 - 12.75 GHz	10.75GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.85dB	-70dBc/Hz	55dB typ
		Band 1: 10.95 - 11.70 GHz	10.00GHz				
		Band 2: 11.70 - 12.75 GHz	10.75GHz				
		Band 1: 10.95 - 11.70 GHz	10.00GHz				
Ku Wide-band INT LNB Ku Wide-band EXT LNB	RW1000I RW1000I1 RW1000X RW1000X1	10.95 - 12.75 GHz	10.00GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.9dB	-70dBc/Hz	55dB typ
		10.70 - 12.25 GHz	9.75GHz				
		10.95 - 12.75 GHz	10.00GHz				
		10.70 - 12.25 GHz	9.75GHz				
Ku Tx-band INT LNB Ku Tx-band EXT LNB	R1314I-1* R1314X-1*	Band 1: 13.03 - 14.03 GHz	12.08GHz	± 10 KHz Phase locked to Ext Ref	0.9dB	-73dBc/Hz	55dB typ
		Band 2: 13.53 - 14.53 GHz	12.58GHz				
		Band 3: 13.75 - 14.75 GHz	12.80GHz				
		Band 4: 14.00 - 14.50 GHz	13.05GHz				
X-band INT LNB X-band EXT LNB	R7000I R7000X	Band 4: 14.00 - 14.50 GHz	6.30GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.7 / 0.8 / 0.9dB	-75dBc/Hz	60dB typ
X-band Auto Ref LNB	R7000A	7.25 - 7.75 GHz	6.30GHz	Auto Switchable Ref ($\pm 5 / \pm 10 / \pm 25$ KHz)	0.7 / 0.8 / 0.9dB	-75dBc/Hz	60dB typ
X Tx-band INT LNB X Tx-band EXT LNB	R8000I R8000X	7.90 - 8.40 GHz	6.95GHz	$\pm 5 / \pm 10 / \pm 25$ KHz Phase locked to Ext Ref	0.7 / 0.8 / 0.9dB	-75dBc/Hz	60dB typ

Ku/X/C/S-band BDC Product Selection Guide

* Refer to the Ku/X/C Sub-band definition below.
Any sub-bands are available.

Products	Part No.	Input Frequency	LO Frequency	LO Stability	NF	Phase Noise @1KHz	Gain
Ku-band INT BDC Ku-band EXT BDC	BD1000IA* BD1000XA*	Band (A): 11.70 - 12.20 GHz	10.75GHz	$\pm 10 / \pm 25$ KHz Phase locked to Ext Ref	18dB	-75dbc/Hz	25dB typ
X-band INT BDC X-band EXT BDC	BD8000IA* BD8000XA*	Band (A): 7.25 - 7.75 GHz	7.15GHz	$\pm 10 / \pm 25$ KHz Phase locked to Ext Ref	15dB	-83dbc/Hz	0dB typ
C-band INT BDC C-band EXT BDC	BD3000IA* BD3000XA*	Band (A): 3.40 - 4.20 GHz	5.15GHz	$\pm 10 / \pm 25$ KHz Phase locked to Ext Ref	2.0dB	-80dbc/Hz	50dB typ
S-band INT BDC S-band EXT BDC	BD2000I BD2000X	2.170 - 2.655 GHz	3.605GHz	$\pm 10 / \pm 25$ KHz Phase locked to Ext Ref	7.0dB	-75dbc/Hz	35dB typ

Ku/X/C/S/L-band LNA Product Selection Guide

* Refer to the Ku/X/C Sub-band definition below.
Any sub-bands are available.

Products	Part No.	Frequency	NF / NT	In / Out VSWR	Output P1dB	Gain	Input interface
Ku Wide-band LNA	LA1000W*-ISO	W: 10.70 - 12.75 GHz	67K	1.3:1 / 1.3:1	10dBm	60dB	WR75
X-band LNA	LA7000A*	A: 7.25 - 7.75 GHz	0.7dB	1.5:1 / 1.5:1	10dBm	62dB	CPR112G
C-band LNA	LA3000A*	A: 3.40 - 4.20 GHz	35K	2.0:1 / 2.0:1	5dBm	50dB	CPR229G
S-band LNA	LA2000C*	C: 2.00 - 2.60 GHz	70K	2.2:1 / 1.8:1	15dBm	50dB	N
L-band LNA	LA1000A*	A: 1.50 - 1.70 GHz	60K	2.0:1 / 1.5:1	15dBm	50dB	N

Ku Sub-band Definition

Sub-band	RF Frequency	LO Frequency
A	11.70 - 12.20 GHz	10.75GHz
A1	11.70 - 12.20 GHz	10.678GHz
A2	11.70 - 12.60 GHz	10.75GHz
A3	11.70 - 12.75 GHz	10.75GHz
A4	11.023 - 12.223 GHz	10.073GHz
A5	11.70 - 12.45 GHz	10.75GHz
A6	11.70 - 12.75 GHz	10.60GHz
A7	11.70 - 12.50 GHz	10.75GHz
B	12.25 - 12.75 GHz	11.30GHz
B1	12.20 - 12.70 GHz	11.25GHz
B2	12.20 - 12.75 GHz	11.25GHz
B3	12.00 - 12.75 GHz	
B4	12.60 - 13.00 GHz	
C	10.95 - 11.70 GHz	10.00GHz
C1	10.70 - 11.70 GHz	9.75GHz
C2	10.70 - 11.45 GHz	9.75GHz
D	11.45 - 11.95 GHz	10.50GHz
E	11.45 - 12.20 GHz	10.50GHz
E1	11.35 - 12.10 GHz	10.40GHz
T	13.75 - 14.50 GHz	12.80GHz
T0	13.75 - 14.80 GHz	12.80GHz
T1	13.40 - 13.65 GHz	12.00GHz
T2	12.75 - 13.25 GHz	11.80GHz
W	10.70 - 12.75 GHz	
W1	10.70 - 12.50 GHz	
W2	10.70 - 12.95 GHz	
W3	10.75 - 12.75 GHz	
W4	10.95 - 12.25 GHz	
W5	10.95 - 12.75 GHz	
W6	10.90 - 12.75 GHz	

X Sub-band Definition

Sub-band	RF Frequency	LO Frequency
A	7.25 - 7.75 GHz	6.30GHz
A1	7.00 - 7.25 GHz	6.05GHz
B	7.90 - 8.40 GHz	6.95GHz
B1	7.60 - 8.50 GHz	
B2	7.90 - 8.50 GHz	6.95GHz
B3	7.70 - 8.50 GHz	6.75GHz
E	8.00 - 8.50 GHz	
E1	8.00 - 8.40 GHz	
E2	8.00 - 8.70 GHz	6.80GHz

C Sub-band Definition

Sub-band	RF Frequency	LO Frequency
A	3.40 - 4.20 GHz	5.15GHz
A1	3.40 - 3.60 GHz	5.15GHz
A2	3.39 - 4.22 GHz	
A3	3.36 - 3.50 GHz	
B	3.40 - 3.70 GHz	4.65GHz
C	3.625 - 4.20 GHz	5.15GHz
C1	3.625 - 4.20 GHz	5.55GHz
D	3.385 - 3.45 GHz	4.40GHz
E	3.70 - 4.20 GHz	5.15GHz
F	3.80 - 4.20 GHz	5.15GHz
E1	3.754 - 4.20 GHz	5.15GHz
G	3.90 - 4.20 GHz	5.15GHz
H	4.00 - 4.20 GHz	5.15GHz
I	4.50 - 4.80 GHz	5.95GHz
I1	4.50 - 4.80 GHz	5.76GHz
T	6.05 - 7.25 GHz	5.10GHz
T0	5.850 - 6.425 GHz	4.90GHz
T1	5.70 - 6.70 GHz	4.75GHz

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Indoor System Controller



BUC 1:1



LNB/LNA 1:1



LNB/LNA 1:2

Redundancy Kit



Ka-band 40W BUC
1:1 Redundancy System



Ka-band LNB/LNA
1:1 Redundancy System



Ka-band LNB/LNA
1:2 Redundancy System



Ku-band 25W BUC
1:1 Redundancy System



Ku-band LNB/LNA
1:1 Redundancy System



Ku-band LNB/LNA
1:2 Redundancy System



X-band 25W BUC
1:1 Redundancy System



X-band LNB/LNA
1:1 Redundancy System



X-band LNB/LNA
1:2 Redundancy System



C-band 30W BUC
1:1 Redundancy System



C-band LNB/LNA
1:1 Redundancy System



C-band LNB/LNA
1:2 Redundancy System



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Redundancy System

BUC 1:1 Redundancy System

Products	Part No.	Output Frequency	Pout	Output Interface	Key Features
Ka-band 20W BUC	RDT2720	27.652 - 28.388 GHz	20W (Psat)	WR-28	• Fully automatic 1:1 redundancy system for outdoor • Automatically detect primary BUC faults and switch to alternate BUC via waveguide switch and IF switch • Mainly composed of two BUCs, a System Controller, a Switch Controller including an IF switch, a waveguide switch • Optional AC Power Supplies, related cables, and mounting brackets are available • A separate system controller with Auto/Manual mode switching, BUC gain control, SSPA On/Off buttons, and Status LEDs and Gain LCDs • Graphic User Interface (GUI) based M&C through Ethernet • Easy installation and maintenance • Easy replacement of Failed BUC while the system is operating
	RDT2820	28.172 - 29.071 GHz			
	RDT2920	29.5 - 30.0 GHz			
	RDT29E20	29.0 - 30.0 GHz			
	RDT3020	30.0 - 31.0 GHz			
Ka-band 40W BUC	RDT2740	27.652 - 28.388 GHz	40W (Psat)	WR-28	
	RDT2840	28.172 - 29.071 GHz			
	RDT2940	29.5 - 30.0 GHz			
	RDT29E40	29.0 - 30.0 GHz			
	RDT3040	30.0 - 31.0 GHz			
Ku-band 16W BUC	RDT1316	13.75 - 14.50 GHz	16W (P1dB)	WR-75	
Ku-band 25W BUC	RDT1416	14.00 - 14.50 GHz	16W (P1dB)	WR-75	
	RDT1325	13.75 - 14.50 GHz	25W (P1dB)	WR-75	
Ku-band 50W BUC	RDT1425	14.00 - 14.50 GHz	25W (P1dB)	WR-75	
	RDT1350	13.75 - 14.50 GHz	50W (P1dB)	WR-75	
	RDT1450	14.00 - 14.50 GHz	50W (P1dB)	WR-75	
X-band 25W BUC	RDT8025	7.90 - 8.40 GHz	25W (P1dB)	CPR-112	
X-band 50W BUC	RDT8050	7.90 - 8.40 GHz	50W (P1dB)	CPR-112	
C-band 30W BUC	RDT5030	5.850 - 6.425 GHz	30W (P1dB)	CPR-137	
	RDT5130	5.850 - 6.650 GHz	30W (P1dB)	CPR-137	
	RDT5230	5.850 - 6.725 GHz	30W (P1dB)	CPR-137	
	RDT5330	5.725 - 6.525 GHz	30W (P1dB)	CPR-137	
	RDT5430	5.725 - 6.225 GHz	30W (P1dB)	CPR-137	
	RDT6030	6.725 - 7.025 GHz	30W (P1dB)	CPR-137	
	RDT5050	5.850 - 6.425 GHz	50W (P1dB)	CPR-137	
C-band 50W BUC	RDT5150	5.850 - 6.650 GHz	50W (P1dB)	CPR-137	
	RDT5250	5.850 - 6.725 GHz	50W (P1dB)	CPR-137	
	RDT5350	5.725 - 6.525 GHz	50W (P1dB)	CPR-137	
	RDT5450	5.725 - 6.225 GHz	50W (P1dB)	CPR-137	
	RDT6050	6.725 - 7.025 GHz	50W (P1dB)	CPR-137	

LNB/LNA 1:1 Redundancy System

Products	Part No.	Input Frequency	NF / NT	Input Interface	Key Features
Ka-band ¹⁾ INT ²⁾ LNB	RDR9000IA	18.20 - 19.20 GHz ³⁾	1.5dB	WR-42	- Fully automatic 1:1 redundancy system for outdoor - Automatically detect primary LNB/LNA faults and switch to alternate LNB/LNA via waveguide switch and IF switch - Mainly composed of two LNB/LNAs, a system controller, a switch controller including an IF switch and a waveguide switch - Optional related cables, and mounting brackets are available - A separate system controller with Auto/Manual mode switching and status LEDs - Graphic User Interface (GUI) based M&C over Ethernet - Easy installation and maintenance - Easy replacement of failed LNB/LNA while the system is operating
Ka-band LNA	RDLA9000C	20.20 - 21.20 GHz ³⁾	1.6dB	WR-42	
Ka Wide-band LNA	RDLA9000W3	19.20 - 21.20 GHz ³⁾	1.7dB	WR-42	
Ku-band ¹⁾ INT ²⁾ LNB	RDR1000IA	11.70 - 12.20 GHz ³⁾	0.8dB	WR-75	
Ku-band LNA	RDLA1000B	12.25 - 12.75 GHz ³⁾	0.8dB	WR-75	
Ku Wide-band LNA	RDLA1000W	10.70 - 12.75 GHz ³⁾	0.8dB	WR-75	
X-band ¹⁾ INT ²⁾ LNB	RDR7000I	7.25 - 7.75 GHz ³⁾	0.8dB	CPR-112G	
X-band LNA	RDLA7000	7.25 - 7.75 GHz ³⁾	0.8dB	CPR-112G	
C-band ¹⁾ INT ²⁾ LNB	RDR3000IA	3.40 - 4.20 GHz ³⁾	45K	CPR-229G	

¹⁾ Dual-band, Tri-band, Quad-band, Penta-band options are available too.

²⁾ LNBs with external and automatic reference are available too.

³⁾ Other frequency options are available too.

LNB/LNA 1:2 Redundancy System

Products	Part No.	Input Frequency	NF / NT	Input Interface	Key Features
Ka-band ¹⁾ INT ²⁾ LNB	RDR9000IA-12	18.20 - 19.20 GHz ³⁾	1.5dB	WR-42	- Fully automatic 1:2 redundancy system for outdoor - Automatically detect primary LNB/LNA faults and switch to alternate LNB/LNA via waveguide switch and IF switch - Mainly composed of three LNB/LNAs, a system controller, a switch controller including an IF switch and a waveguide switch - Optional related cables, and mounting brackets are available - A separate system controller with Auto/Manual mode switching and status LEDs - Graphic User Interface (GUI) based M&C over Ethernet - Easy installation and maintenance - Easy replacement of failed LNB/LNA while the system is operating
Ka-band LNA	RDLA9000C-12	20.20 - 21.20 GHz ³⁾	1.6dB	WR-42	
Ka Wide-band LNA	RDLA9000W3-12	19.20 - 21.20 GHz ³⁾	1.7dB	WR-42	
Ku-band ¹⁾ INT ²⁾ LNB	RDR1000IA-12	11.70 - 12.20 GHz ³⁾	0.8dB	WR-75	
Ku-band LNA	RDLA1000B-12	12.25 - 12.75 GHz ³⁾	0.8dB	WR-75	
Ku Wide-band LNA	RDLA1000W-12	10.70 - 12.75 GHz ³⁾	0.8dB	WR-75	
X-band ¹⁾ INT ²⁾ LNB	RDR7000I-12	7.25 - 7.75 GHz ³⁾	0.8dB	CPR-112	
X-band LNA	RDLA7000-12	7.25 - 7.75 GHz ³⁾	0.8dB	CPR-112	
C-band ¹⁾ INT ²⁾ LNB	RDR3000IA-12	3.40 - 4.20 GHz ³⁾	45K	CPR-229	

¹⁾ Dual-band, Tri-band, Quad-band, Penta-band options are available too.

²⁾ LNBs with external and automatic reference are available too.

³⁾ Other frequency options are available too.

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SATCOM for Airborne, Air-Series



Ka-band 20W AirBUC™
Air-T2920G / Air-T29E20G / Air-T3020G



Ka Dual-band 20W AirBUC™
Air-TD3020G



Ku-band 25W AirBUC™
Air-T1325G



X-band 25W AirBUC™
Air-T8025G



Ku Dual-band AirBDC™
Air-BD1000



Ku Dual-band AirLNB™
Air-RD1000



Ku Quad-band AirLNB™
Air-RQ1000



Ka Dual-band AirLNB™
Air-RD9000

SATCOM for Defence, D-Series



Ku-band 60W BUC
D-T1360G / D-T1460G



Ku-band 25W BUC
D-T1325G / D-T1425G



X-band 80W BUC
D-T8080G



X-band 100/150W BUC
D-T80100G / D-T80150G



Ka Dual-band LNB
D-RD9000



Ka Tri-band LNB
D-RT9000



Ku Dual-band LNB
D-RD1000



Ku Quad-band LNB
D-RQ1000



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BUC Product Selection Guide

Products	Part No.	Input Frequency	LO Frequency	Output Frequency	Output Power	Power Consumption	Weight	Dimension
Air Series X-band 25W BUC	Air-T8025	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+44dBm (P1dB)	200W	2.9kg	180.0 x 130.0 x 118.0 mm
Air Series Ku-band 16mW BUC	Air-BU1316	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+12dBm (P1dB)	9W	0.45kg	106.2 x 88.9 x 25.4 mm
Air Series Ku-band 8W BUC	Air-T1308	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+39dBm (P1dB)	85W	2.4kg	180.0 x 130.0 x 80.0 mm
	Air-T1408	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz				
Air Series Ku-band 16W BUC	Air-T1316	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+42dBm (P1dB)	150W	2.4kg	180.0 x 130.0 x 80.0 mm
	Air-T1416	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz				
Air Series Ku-band 25W BUC	Air-T1325G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+44dBm (Psat)	180W	2.9kg	180.0 x 130.0 x 118.0 mm
Air Series Ka-band 20W BUC	Air-T2920	950 - 1450 MHz	28.55GHz	29.50 - 30.00 GHz	+43dBm (Psat)	200W	3.3kg	222.0 x 150.0 x 94.6 mm
	Air-T29E20	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz				
	Air-T3020	1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz				
Air Series Ka Dual-band 20W BUC	Air-TD3020	1000 - 2000 MHz	28.00GHz	29.00 - 30.00 GHz	+43dBm (Psat)	150W	1.3kg	170.4 x 110.0 x 51.0 mm
		1000 - 2000 MHz	29.00GHz	30.00 - 31.00 GHz				
Defense Series X-band 100W BUC	D-T80150GA	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+50dBm (Psat)	480W	9.5kg	326.0 x 168.0 x 170.0 mm
Defense Series X-band 150W BUC	D-T80150GA	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+52dBm (Psat)	580W	11.0kg	345.0 x 168.0 x 170.0 mm
Defense Series Ku-band 8W BUC	D-T1308	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+39dBm (P1dB)	85W	2.4kg	180.0 x 130.0 x 80.0 mm
	D-T1408	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz				
Defense Series Ku-band 16W BUC	D-T1316	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+42dBm (P1dB)	150W	2.4kg	180.0 x 130.0 x 80.0 mm
	D-T1416	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz				
Defense Series Ku-band 25W BUC	D-T1325G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+44dBm (Psat)	200W	1.9kg	288.9 x 153.5 x 45.0 mm
	D-T1425G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz				
Defense Series Ku-band 60W BUC	D-T1360G	950 - 1700 MHz	12.80GHz	13.75 - 14.50 GHz	+47.8dBm (Psat)	540W	13.0kg	305.0 x 180.0 x 150.0 mm
	D-T1460G	950 - 1450 MHz	13.05GHz	14.00 - 14.50 GHz				
Defense Series Ku-band 80W BUC	D-T8080G	950 - 1450 MHz	6.95GHz	7.90 - 8.40 GHz	+49dBm (Psat)	650W	15kg	410.0 x 230.0 x 58.0 mm

LNB/BDC Product Selection Guide

Products	Part No.	Input Frequency	LO Frequency	LO Stability	NF	Gain	Weight	Dimension
Air Series Ka Quad-band EXT LNB	Air-RQ9000X	Band 1: 17.70 - 18.40 GHz	16.75GHz	Phase locked to Ext Ref	1.7dB	58dB typ	410g	113.6 x 70.0 x 39.0 mm
		Band 2: 18.30 - 19.00 GHz	17.35GHz					
		Band 3: 18.90 - 19.60 GHz	17.95GHz					
		Band 4: 19.50 - 20.20 GHz	18.55GHz					
Air Series Ka Tri-band INT LNB	Air-RT9000IA3A4B2	Band 1 (A3): 17.30 - 18.30 GHz	16.35GHz	±10 / ±25 / ±50 KHz	1.6dB	65dB typ	500g	113.6 x 70.0 x 39.0 mm
Air Series Ka Tri-band EXT LNB	Air-RT9000XA3A4B2	Band 2 (A4): 18.30 - 19.30 GHz	17.35GHz					
		Band 3 (B2): 19.30 - 20.20 GHz	18.35GHz					
Air Series Ku Dual-band INT LNB	Air-RD1000IC1A3	Band 1 (A3): 17.30 - 18.30 GHz	16.35GHz	Phase locked to Ext Ref	0.85dB	65dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2 (A4): 18.30 - 19.30 GHz	17.35GHz					
		Band 3 (B2): 19.30 - 20.20 GHz	18.35GHz					
Air Series Ku Dual-band EXT LNB	Air-RD1000XC1A3	Band 1 (C): 10.95 - 11.70 GHz	10.00GHz	±5 / ±10 / ±25 KHz	0.9dB	63dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2 (A3): 11.70 - 12.75 GHz	10.75GHz					
		Band 3 (B2): 19.30 - 20.20 GHz	18.35GHz					
Air Series Ku Quad-band INT LNB	Air-RQ1000I	Band 1 (C): 10.95 - 11.70 GHz	10.00GHz	±5 / ±10 / ±25 KHz	0.9dB	63dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2 (A3): 11.70 - 12.75 GHz	10.75GHz					
		Band 3: 11.70 - 12.75 GHz	10.75GHz					
		Band 4: 12.25 - 12.75 GHz	11.30GHz					
Air Series Ku Quad-band EXT LNB	Air-RQ1000X	Band 1: 10.70 - 11.70 GHz	9.75GHz	Phase locked to Ext Ref	8.0dB	27±2dB	500g	124.0 x 66.0 x 26.5 mm
		Band 2: 10.95 - 11.70 GHz	10.00GHz					
		Band 3: 11.70 - 12.75 GHz	10.75GHz					
		Band 4: 12.25 - 12.75 GHz	11.30GHz					
Defense Series Ka Tri-band INT LNB	D-RT9000IA3A4B2	Band 1: 10.70 - 11.70 GHz	9.75GHz	Phase locked to Ext Ref	1.6dB	65dB typ	500g	113.6 x 70.0 x 39.0 mm
		Band 2: 10.95 - 11.70 GHz	10.00GHz					
		Band 3: 11.70 - 12.75 GHz	10.75GHz					
Defense Series Ka Tri-band EXT LNB	D-RT9000XA3A4B2	Band 1 (A3): 17.30 - 18.30 GHz	16.35GHz	Phase locked to Ext Ref	1.6dB	65dB typ	500g	113.6 x 70.0 x 39.0 mm
		Band 2 (A4): 18.30 - 19.30 GHz	17.35GHz					
		Band 3 (B2): 19.30 - 20.20 GHz	18.35GHz					
Defense Series Ka Dual-band INT LNB	D-RD9000IAB	Band 1 (A): 18.20 - 19.20 GHz	17.25GHz	±10 / ±25 / ±50 KHz	1.5dB	58dB typ	500g	113.6 x 70.0 x 39.0 mm
		Band 2 (B): 19.20 - 20.20 GHz	18.25GHz					
Defense Series Ka Dual-band EXT LNB	D-RD9000XAB	Band 1 (A): 18.20 - 19.20 GHz	17.25GHz	Phase locked to Ext Ref	0.9dB	63dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2 (B): 19.20 - 20.20 GHz	18.25GHz					
Defense Series Ku Quad-band INT LNB	D-RQ1000I	Band 1: 10.70 - 11.70 GHz	9.75GHz	±5 / ±10 / ±25 KHz	0.9dB	63dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2: 10.95 - 11.70 GHz	10.00GHz					
		Band 3: 11.70 - 12.75 GHz	10.75GHz					
		Band 4: 12.25 - 12.75 GHz	11.30GHz					
Defense Series Ku Quad-band EXT LNB	D-RQ1000X	Band 1: 10.70 - 11.70 GHz	9.75GHz	Phase locked to Ext Ref	0.9dB	65dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2: 10.95 - 11.70 GHz	10.00GHz					
		Band 3: 11.70 - 12.75 GHz	10.75GHz					
		Band 4: 12.25 - 12.75 GHz	11.30GHz					
Defense Series Ku Dual-band INT LNB	D-RD1000IC1A3	Band 1 (C1): 10.70 - 11.70 GHz	9.75GHz	±5 / ±10 / ±25 KHz	0.9dB	65dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2 (A3): 11.70 - 12.75 GHz	10.75GHz					
Defense Series Ku Dual-band EXT LNB	D-RQ1000X	Band 1 (C1): 10.70 - 11.70 GHz	9.75GHz	Phase locked to Ext Ref	0.9dB	65dB typ	360g	103.0 x 54.0 x 40.0 mm
		Band 2 (A3): 11.70 - 12.75 GHz	10.75GHz					

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How to protect satellite signal from 5G interference

C-band BPF (C series)



BPF-3950-500
(C-1, 3700-4200 MHz)



BPF-3912.5-575
(C-2, 3625-4200 MHz)



BPF-3977-446
(C-3, 3754-4200 MHz)



BPF-4000-400
(C-4, 3800-4200 MHz)



BPF-4050-300
(C-5, 3900-4200 MHz)



BPF-4100-200
(C-6, 4000-4200 MHz)

C-band BPF (CX series for better 5G interference rejection)



BPF-CX-3950-500
(3700-4200 MHz)



BPF-CX-3860-480
(3720-4200 MHz)



BPF-CX-4000-400
(3800-4200 MHz)



BPF-CX-4010-380
(3820-4200 MHz)



BPF-CX-4050-300
(3900-4200 MHz)



BPF-CX-4100-200
(4000-4200 MHz)

C-band LNB (5G series, BPF included in IF path)



R3000IC-5G
(3625-4200 MHz)



R3000IE-5G
(3700-4200 MHz)



R3000IE1-5G
(3754-4200 MHz)



R3000IF-5G
(3800-4200 MHz)



R3000IG-5G
(3900-4200 MHz)



R3000IH-5G
(4000-4200 MHz)

C-band LNB (5GX series, BPF included in RF&IF paths)



R3000IC-5GX
(3625-4200 MHz)



R3000IE-5GX
(3700-4200 MHz)



R3000IE1-5GX
(3754-4200 MHz)



R3000IF-5GX
(3800-4200 MHz)



R3000IG-5GX
(3900-4200 MHz)



RG3240I-5GX
(3400-4200 MHz,
3820-4200 MHz,
4000-4200 MHz)



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BPF Product Selection Guide

Products	Part No.	Pass Band	Bandwidth	In-band Insertion Loss	Rejection	Return Loss	Dimension/ Weight
C-band BPF (C series for 5G)	BPF-3950 ¹⁾ -500 ²⁾ (BPF-C-1)	3700 - 4200 MHz	500MHz	0.5dB max	25dB @3650MHz/4250MHz	15dB	120 x 99 x 70 mm / 650g
	BPF-3912.5-575 (BPF-C-2)	3625 - 4200 MHz	565MHz	0.5dB max	25dB @3575MHz/4250MHz	15dB	120 x 99 x 70 mm / 650g
	BPF-3977-500 (BPF-C-3)	3754 - 4200 MHz	446MHz	0.5dB max	25dB @3704MHz/4250MHz	15dB	120 x 99 x 70 mm / 650g
	BPF-4000-400 (BPF-C-4)	3800 - 4200 MHz	400MHz	0.5dB max	25dB @3750MHz/4250MHz	15dB	120 x 99 x 70 mm / 650g
	BPF-4050-300 (BPF-C-5)	3900 - 4200 MHz	300MHz	0.6dB max	25dB @3850MHz/4250MHz	15dB	120 x 99 x 70 mm / 650g
	BPF-4100-200 (BPF-C-6)	4000 - 4200 MHz	200MHz	0.8dB max	25dB @3950MHz/4250MHz	15dB	120 x 99 x 70 mm / 650g
C-band BPF (CX series for 5G)	BPF-CX-3950 ³⁾ -500 ⁴⁾	3700 - 4200 MHz	500MHz	1.7dB max	60dB @3680MHz	18dB	150 x 99 x 70 mm / 900g
	BPF-CX-3960-480	3720 - 4200 MHz	480MHz	1.7dB max	60dB @3700MHz	18dB	150 x 99 x 70 mm / 900g
	BPF-CX-4000-400	3800 - 4200 MHz	400MHz	1.5dB max	60dB @3780MHz	18dB	150 x 99 x 70 mm / 900g
	BPF-CX-4010-380	3820 - 4200 MHz	380MHz	1.5dB max	60dB @3800MHz	18dB	150 x 99 x 70 mm / 900g
	BPF-CX-4050-300	3900 - 4200 MHz	300MHz	1.4dB max	60dB @3880MHz	18dB	150 x 99 x 70 mm / 900g
	BPF-CX-4100-200	4000 - 4200 MHz	200MHz	1.3dB max	60dB @3980MHz	18dB	165 x 99 x 70 mm / 950g
C-band BPF (CX-K series for 5G)	BPF-CX-3950-500	3700 - 4200 MHz	500MHz	1.0dB max	40dB @3680MHz	18dB	140 x 99 x 70 mm / 850g
	BPF-CX-3960-480	3720 - 4200 MHz	480MHz	1.0dB max	40dB @3700MHz	18dB	140 x 99 x 70 mm / 850g

1),2),3),4) Other center frequencies and bandwidths are available upon request.

LNB Product Selection Guide

Products	Part No.	Input Frequency	LO Frequency	LO Stability	NT	Phase Noise 1KHz	Gain
C-band INT LNB (5G series)	R3000IC-5G	3.625 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	30K	-78dBc/Hz	62dB typ
	R3000IE-5G	3.70 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	30K	-78dBc/Hz	62dB typ
	R3000IE1-5G	3.754 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	30K	-78dBc/Hz	62dB typ
	R3000IF-5G	3.80 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	30K	-78dBc/Hz	62dB typ
	R3000IG-5G	3.90 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	30K	-78dBc/Hz	62dB typ
	R3000IH-5G	4.00 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	30K	-78dBc/Hz	62dB typ
	5G rejection filter is included in LNB IF path. Fully functional under max -55dBm of 5G interference that is 100MHz away from pass band.						
C-band INT LNB (5GX series)	R3000IC-5GX	3.625 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	40K	-78dBc/Hz	58dB typ
	R3000IE-5GX	3.70 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	40K	-78dBc/Hz	58dB typ
	R3000IE1-5GX	3.754 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	40K	-78dBc/Hz	58dB typ
	R3000IF-5GX	3.80 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	40K	-78dBc/Hz	58dB typ
	R3000IG-5GX	3.90 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	40K	-78dBc/Hz	58dB typ
	R3000IH-5GX	4.00 - 4.20 GHz	5.15GHz	±5 / ±10 / ±25 / ±50 KHz	40K	-78dBc/Hz	58dB typ
	RG3240I-5GX	3.40 - 4.20 GHz	5.15GHz	±10 KHz	45K	-78dBc/Hz	62dB typ
		3.82 - 4.20 GHz	5.15GHz	±10 KHz	45K	-78dBc/Hz	62dB typ
		4.00 - 4.20 GHz	5.15GHz	±10 KHz	45K	-78dBc/Hz	62dB typ
	5G rejection filters are included in LNB RF&IF paths. Fully functional under max -25dBm of 5G interference that is 100MHz away from pass band.						

1),2) Other center frequencies and bandwidths are available upon request.

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Ku, X-band BPF



Ku-band BPF
BPF-11725-2050



Ku-band BPF
BPF-11600-1800



X-band BPF
BPF-7500-500



X-band BPF
BPF-7650-500

C-band BPF (Standard series)



BPF-CF-36



BPF-CF-72



BPF-CF-300



BPF-CF-500

C-band BPF (CX series for 5G interference rejection)



BPF-CX-CF-480
40dB @20MHz offset



BPF-CX-CF-500
40dB @20MHz offset



BPF-CX-CF-300
60dB @20MHz offset



BPF-CX-CF-500
60dB @20MHz offset

L-band BPF



BPF-CF-36



BPF-CF-72



BPF-CF-300



BPF-CF-500

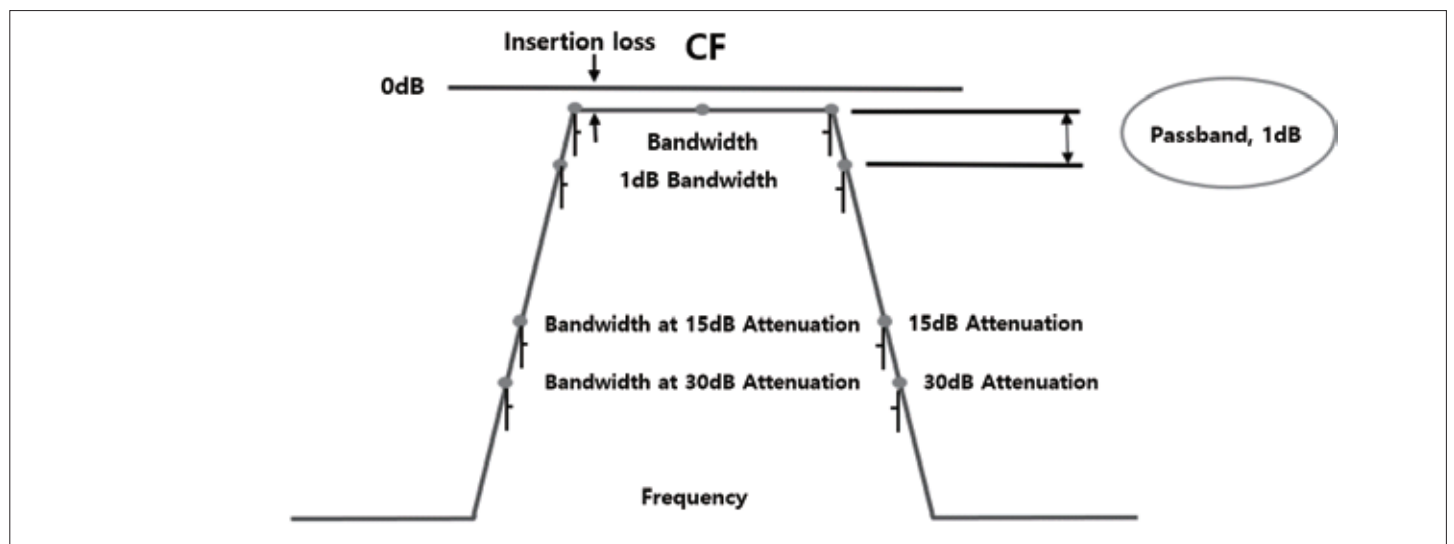


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BPF Product Selection Guide

Products	Part No.	Pass Band	Bandwidth	In-band Insertion Loss	Rejection	Insertion Loss @10MHz	Dimension
Ku-band BPF	BPF-11600*-1800**	1050 - 1250 MHz	1800MHz	0.4dB max	55dB @12.75 - 14.50 GHz	N/A	174.4 x 38.1 x 38.1 mm
	BPF-11725-2050	1070 - 1275 MHz	2050MHz	0.65dB max	70dB @9.50 - 10.00 GHz	N/A	198.0 x 38.1 x 38.1 mm
X-band BPF	BPF-7500*-500**	7250 - 7750 MHz	500MHz	0.5dB max	100dB @7.90 - 8.40 GHz	N/A	375.0 x 64.0 x 48.0 mm
	BPF-7650-500	7400 - 7900 MHz	500MHz	0.5dB max	100dB @8.05 - 8.60 GHz	N/A	375.0 x 64.0 x 48.0 mm
	BPF-8250-500	8000 - 8500 MHz	500MHz	0.5dB max	100dB @8.65 - 9.20 GHz	N/A	375.0 x 64.0 x 48.0 mm
C-band BPF (C series)	BPF-3539*-36**	3521 - 3557 MHz	36MHz	0.6dB max	25dB @CF±68 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3095-72	3869 - 3941 MHz	72MHz	0.6dB max	25dB @CF±86 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3550-150	3475 - 3625 MHz	150MHz	0.6dB max	25dB @CF±170 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-4050-300 (BPF-C-5)	3900 - 4200 MHz	300MHz	0.5dB max	25dB @CF±200 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-4000-400 (BPF-C-4)	3800 - 4200 MHz	400MHz	0.5dB max	25dB @CF±250 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3950-500 (BPF-C-1)	3700 - 4200 MHz	500MHz	0.5dB max	25dB @CF±300 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3977-500 (BPF-C-3)	3754 - 4200 MHz	500MHz	0.5dB max	25dB @CF±273 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3912.5-575 (BPF-C-2)	3625 - 4200 MHz	575MHz	0.5dB max	25dB @CF±337.5 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3760-620	3450 - 4070 MHz	620MHz	0.8dB max	25dB @CF±370 MHz	N/A	120.0 x 99.0 x 70.0 mm
	BPF-3800-800	3400 - 4200 MHz	800MHz	0.8dB max	25dB @CF±475 MHz	N/A	120.0 x 99.0 x 70.0 mm
C-band BPF (CX series for 5G)	BPF-CX-4112*-176**	4024 - 4200 MHz	176MHz	1.7dB max	60dB @4004MHz	N/A	140.0 x 99.0 x 70.0 mm
	BPF-CX-4050-300	3900 - 4200 MHz	300MHz	1.4dB max	60dB @3880MHz	N/A	140.0 x 99.0 x 70.0 mm
	BPF-CX-3960-480	3720 - 4200 MHz	480MHz	1.7dB max	60dB @3700MHz	N/A	140.0 x 99.0 x 70.0 mm
	BPF-CX-3960-480-KT	3720 - 4200 MHz	480MHz	1.0dB max	40dB @3700MHz	N/A	140.0 x 99.0 x 70.0 mm
	BPF-CX-3947.5-500	3695 - 4200 MHz	505MHz	1.4dB max	75dB @3600MHz	N/A	140.0 x 99.0 x 70.0 mm
	BPF-CX-3950-500	3700 - 4200 MHz	500MHz	1.7dB max	60dB @3680MHz	N/A	140.0 x 99.0 x 70.0 mm
	BPF-CX-3950-500-KT	3700 - 4200 MHz	500MHz	1.0dB max	40dB @3680MHz	N/A	140.0 x 99.0 x 70.0 mm
L-band BPF	BPF-1000*-30**	985 - 1015 MHz	30MHz	4.0dB max	15dB @CF±26 MHz	1dB	108.0 x 44.0 x 22.0 mm
	BPF-1095-40	1075 - 1115 MHz	40MHz	4.0dB max	15dB @CF±40 MHz	1dB	108.0 x 44.0 x 22.0 mm
	BPF-1167-70	1132 - 1202 MHz	70MHz	4.0dB max	15dB @CF±80 MHz	1dB	108.0 x 44.0 x 22.0 mm
	BPF-1220-300	1070 - 1370 MHz	300MHz	4.0dB max	15dB @CF±250 MHz	1dB	108.0 x 44.0 x 22.0 mm
	BPF-1219-400	1019 - 1419 MHz	400MHz	3.0dB max	15dB @CF±300 MHz	1dB	108.0 x 44.0 x 22.0 mm
	BPF-1200-500	950 - 1450 MHz	500MHz	3.0dB max	15dB @CF±350 MHz	1dB	108.0 x 44.0 x 22.0 mm

*, ** Other center frequencies and bandwidths are available upon request.



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Reference Source, Bias T, Multi-band Controller



Reference Source
10MHz



Bias T



LNB Multi-band
Controller

Feed, Duplexer, Coupler



Ka-band Feed



Ka-band Duplexer



Ku-band Coupler

Cable Assembly



DC Power and M&C



M&C



Power

Power Supply



Power Supply 200W



Power Supply 350W



Power Supply 500W



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Product Selection Guide

Reference Source

Products	Part No.	Frequency	Stability	Phase Noise	Output Power	DC Power	Output Connector
Reference, 10MHz	REF010	10MHz	±25ppb	-150dBc @1KHz	0dBm	+6V	SMA
Reference, 50MHz	REF050	50MHz	±25ppb	-150dBc @1KHz	0dBm	+6V	SMA
Reference, 100MHz	REF100	100MHz	±25ppb	-150dBc @1KHz	0dBm	+6V	SMA

Bias T

Products	Part No.	Frequency	DC Power	IL in BW	Connector (In/Out)	Connector (DC)	Connector (10MHz)
Bias T	BT1010	950 - 1450 MHz	+15 to +24V	2dB	F, N, SMA	N,F,SMA,BNC,TNC	N,F,SMA,BNC,TNC
	BT2010	950 - 2150 MHz	+15 to +24V	2dB	F, N, SMA	N,F,SMA,BNC,TNC	N,F,SMA,BNC,TNC

Multi-band Controller

Products	Part No.	No of Band	DC Power	Switching by	Switching Signal	Interface to MODEM	Interface to LNB
Multi-band Controller	CTRM04	4	+23 to +25V	Rotary Switch*	DC, tone	N, F	N, F
	CTRM06	6	+23 to +25V	Rotary Switch*	DC, tone	N, F	N, F

* Switch control via serial communication is available upon request.

FEED

Products	Part No.	Frequency	Input VSWR	Gain	Gain Flatness	3dB Bandwidth	Input WG	Output WG
Ka-band Feed	FD9000L	18.20 - 20.20 GHz	2.0 : 1	15dBi	±1.5dBi	±1.5°	Circular	WR42
	FD9000H	20.20 - 22.20 GHz	2.0 : 1	15dBi	±1.5dBi	±1.5°	Circular	WR42

DUPLEXER

Products	Part No.	Rx Frequency	Tx Frequency	VSWR	Isolation (Rx-Tx)	Insertion Loss	Rx WG	Tx WG
Ka-band Duplexer	DP9000K	19.80 - 20.20 GHz	29.60 - 30.20 GHz	1.5 : 1	80dB	0.5dB	WR42	WR28

Coupler

Products	Part No.	Frequency	Coupling	Directivity	Direction	VSWR	Flange	Connector
Ku-band Coupler	CPL1000	10.70 - 12.75 GHz	40dB	20dB	Forward	1.1 : 1	WR75	SMA

Cable Assembly

Products	Part No.	Communication (RE)	Power (DC/AC)	Length(L)	Port 1	Port 2	Port 3	Port 4
Cable Assembly	CA-RE-DC-L	RS232, Ethernet	+24 / +48 VDC	1, 2, 3 m	MS3116A 14-12S	MS3106A 14S-5S	DS-09S	RJ-45
	CA-RE-L	RS232, Ethernet	-	1, 2, 3 m	MS3116A 12-10S	DS-09S	RJ-45	-
	CA-DC-L	-	+24 / +48 VDC	1, 2, 3 m	MS3116A 14-5S	MS3106A 14S-5S	-	-
	CA-AC-L	-	110 / 220 VAC	1, 2, 3 m	MS3116A 14S-1S	AC plug	-	-

Power Supply

Products	Part No.	Input Voltage	Input Frequency	Output Voltage	Rated Current	Rated Power	Cooling	Used for
AC-DC Power Supply	PS200-48-ACDC	95 - 265 VAC	47 - 63 Hz	+48VDC	4.2A	200W	Air (No fan)	10W BUC
	PS400-48-ACDC	95 - 265 VAC	47 - 63 Hz	+48VDC	7.2A	350W	Air (No fan)	20W BUC
	PS500-48-ACDC	95 - 265 VAC	47 - 63 Hz	+48VDC	10.4A	500W	Fan	40W BUC
DC-DC Power Supply	PS200-48-DCDC	-36 to -72 VDC	47 - 63 Hz	+48VDC	4.2A	200W	Air (No fan)	10W BUC

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SATCOM

Fixed Frequency Source



Fixed Frequency Source
4.0GHz



Fixed Frequency Source
12.45GHz



Fixed Frequency Source
12.50GHz

Synthesizer



Step Synthesizer
2-20 GHz



Step Synthesizer
12-18 GHz



Hopping Synthesizer
1-18 GHz

Converter



C-band Down-Converter



Ku-band Down-Converter



Ku-band Up-Converter

Splitter



Active Splitter Dual CH 1:8
3-13 GHz



Active Splitter Dual CH 1:8
10-13 GHz



Active Splitter Dual CH 1:8
17-22 GHz



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HQ: GAON Biztower #913, 120 Daehwa-ro, Daedeok-gu, Daejeon 34366 Korea

Product Selection Guide

Fixed Frequency Source

Products	Part No.	Frequency	Output Power	Lock Time	Stability	Phase Noise	DC Power
Frequency Source	FS0116	1.16GHz	+13dBm	5ms	±1ppm	-120dBc/Hz @10KHz	+12VDC
	FS0400	4.00GHz	+13dBm	5ms	±1ppm	-120dBc/Hz @10KHz	+12VDC
	FS1245	12.45GHz	+10dBm	5ms	±1ppm	-90dBc/Hz @10KHz	+6VDC
	FS1250	12.50GHz	+10dBm	5ms	±1ppm	-90dBc/Hz @10KHz	+6VDC
	FS1850	18.50GHz	+13dBm	5ms	±1ppm	-105dBc/Hz @10KHz	+12VDC

Synthesizer

Products	Part No.	Frequency	Resolution	Lock Time	Stability	Phase Noise	DC Power
Step Synthesizer	SZ0220	2.0-20.0 GHz	1KHz	5ms	±0.5ppm	-85dBc/Hz @10KHz	+5VDC
Step Synthesizer	SZ0612	6.0-12.0 GHz	1KHz	5ms	±0.5ppm	-88dBc/Hz @10KHz	+6VDC
Step Synthesizer	SZ1218	12.5-18.3 GHz	1MHz	5ms	±0.5ppm	-85dBc/Hz @10KHz	+6VDC
Hopping Synthesizer	FHSZ0118	1.0-18.0 GHz	30MHz	5ms	±0.5ppm	-95dBc/Hz @10KHz	+15VDC

Down-Converter

Products	Part No.	Input Frequency	Output Frequency	Frequency Step	Output Power	Gain	Phase Noise
Ku-band Down-Converter	DC1400	13.75-14.80 GHz	950-2000 MHz	-	+10dBm	20dB	-
Ku Dual-band Down-Converter	DCD1200	Band-1: 10.70-11.70 GHz	950-1950 MHz	-	+10dBm	10 to 30 dB, 1dB step	-75dBc @1KHz
		Band-2: 11.70-12.75 GHz	950-2000 MHz				
C-band Down-Converter	DC6900	6.89-7.09 GHz	840-1040 MHz	-	0dBm	30 to 60 dB, 1dB step	-70dBc @1KHz
	DC6100	5.850-6.425 GHz	950-1525 MHz	-	+10dBm	20dB	-
	DC4600	4.50-4.80 GHz	950-1250 MHz	-	+13dBm	10 to 30dB, 1dB step	-75dBc @1KHz
	DC3900	3.625-4.200 GHz	950-1525 MHz	-	+10dBm	20dB	-
	DC3810	3.40-4.20 GHz	950-1750 MHz	-	+15dBm	10 to 30dB, 1dB step	-75dBc @1KHz
	DC3800	3.40-4.20 GHz	950-1750 MHz	-	+15dBm	10 to 30dB, 1dB step	-80dBc @1KHz
	DC3600	3.52-3.72 GHz	840-1040 MHz	-	+0dBm	30 to 60 dB, 1dB step	-70dBc @1KHz

Up-Converter

Products	Part No.	Input Frequency	Output Frequency	Frequency Step	Output Power	Gain	Phase Noise
Ka-band Up-Converter	UC1410	950-1700 MHz	13.75-14.50 GHz	-	+10dBm	10 to 30 dB, 1dB step	-75dBc @1KHz
Ku-band Up-Converter	UC1420	950-1700 MHz	13.75-14.50 GHz	-	+10dBm	0 to 22 dB, 1dB step	-90dBc @1KHz
Ku-band Up-Converter	UC1310	950-1450 MHz	12.75-13.25 GHz	-	+10dBm	0 to 22 dB, 1dB step	-90dBc @1KHz
C-band Up-Converter	UC6800	950-1250 MHz	6.70-7.00 GHz	-	+15dBm	10 to 30 dB, 0.5dB step	-75dBc @1KHz
	UC6500	840-1040 MHz	6.40-6.60 GHz	-	+10dBm	10 to 30 dB, 1dB step	-70dBc @1KHz
	UC6200	950-1800 MHz	5.85-6.70 GHz	-	+15dBm	10 to 30 dB, 0.5dB step	-75dBc @1KHz
	UC5110	840-1040 MHz	5.07-5.27 GHz	-	+10dBm	10 to 30 dB, 1dB step	-70dBc @1KHz
	UC4600	950-1250 MHz	4.50-4.80 GHz	-	+5dBm	10 to 30 dB, 0.5dB step	-75dBc @1KHz
	UC3800	950-1750 MHz	3.40-4.20 GHz	-	+5dBm	10 to 30 dB, 0.5dB step	-75dBc @1KHz

Active Splitter

Products	Part No.	Frequency	Gain	Gain Flatness	Input Return Loss	Output Return Loss	Pout	Rack
Dual CH 1:8	TLA0313-8	3.0-13.0 GHz	0dB	±2.5dB	10dB	10dB	0dBm	1RU
	TLA1013-8	10.0-13.0 GHz	0dB	±2.5dB	10dB	10dB	0dBm	1RU
	TLA1722-8	17.0-22.0 GHz	17dB	±2.5dB	10dB	10dB	0dBm	1RU



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