

CONVERTERS

Band	Up Converters			Down Converters		
C	UT-4505/I Up Converter 5850 – 6725 MHz	UT-4505 Series Up Converters 5845 – 6425 MHz 6725 – 7025 MHz	SFC6400A Synthesized Frequency Up Converter 5845 – 6425 MHz 5845 – 6650 MHz 5850 – 6725 MHz	DT-4503/C Down Converter 3400 – 4200 MHz	DT-4503 Series Down Converters 3625 – 4200 MHz 3400 – 3700 MHz 4500 – 4800 MHz	SFC4200A Synthesized Frequency Down Converter 3625 – 4200 MHz 3400 – 4200 MHz
	UT-4505/M 5845 – 6725 MHz	6425 – 6725 MHz 5925 – 6725 MHz 5850 – 6650 MHz 7025 – 7075 MHz 5725 – 6425 MHz 5725 – 6725 MHz 5845 – 6475 MHz				
Ku	UT-4514 Series Up Converters 14.00 – 14.50 GHz 12.75 – 13.25 GHz 12.75 – 14.50 GHz 13.75 – 14.50 GHz 14.70 – 15.00 GHz 14.50 – 15.35 GHz	UT-4518 Series Up Converters 17.30 – 18.10 GHz 17.30 – 18.40 GHz	SFC1450A Synthesized Frequency Up Converter 14.00 – 14.50 GHz 13.75 – 14.50 GHz	DT-4513 Series Down Converters 10.95 – 12.75 GHz 10.70 – 12.75 GHz	DT-451X Series Down Converters 10.95 – 11.70 GHz 10.70 – 11.70 GHz 11.70 – 12.20 GHz 12.20 – 12.75 GHz 12.50 – 12.80 GHz	SFC1275A Synthesized Frequency Down Converter 10.95 – 11.70 GHz 12.25 – 12.75 GHz 11.70 – 12.20 GHz 10.95 – 12.75 GHz
	X	UT-4579 Up Converter 7900 – 8400 MHz			DT-4572 Down Converter 7250 – 7750 MHz	
	LBC-4000 Up/Down Converter System					
		70 ± 18 MHz Input 950 – 2000 MHz Output			950 – 2000 MHz Input 70 ± 18 MHz Output	
Multi	MBT-5000/5003 Up/Down Converter System			BUC/BDC Functionality: Available in C-, X- and Ku-Bands Refer to Datasheet		

TRANSCEIVERS

Band	Product	Frequency Range	Watts P1dB (PSAT)*
C	CSAT-5060 Transceiver	TX RF: 5845 – 6425 MHz Standard 6425 – 6725 MHz (Optional Extended) 5850 – 6650 MHz (Optional Wide) 5845 – 6725 MHz (Optional Super Wide)	10 dBm 5 (6) 10 (12) 25 (32)
		RX RF: 3400 – 4200 MHz on All IF: 70 MHz ± 18 MHz 140 MHz ± 36 MHz (Optional)	50 (63) 100 (125) 125 (150)
C	CSAT-6070 Transceiver	TX RF: 6725 – 7025 MHz RX RF: 4500 – 4800 MHz on All IF: 70 MHz ± 18 MHz 140 MHz ± 36 MHz (Optional)	5 (6) 10 (12) 25 (32) 50 (63) 100 (125) 125 (150)
Ku	KST-2000A/B Transceiver	TX RF: 13.75 – 14.5 GHz, in 1.0 MHz steps RX RF: 10.95 – 12.75 GHz (KST-2000A) 10.95 – 11.70 GHz or 11.70 – 12.20 GHz or 12.25 – 12.75 GHz (KST-2000B) IF: 50 – 90 MHz (100 – 180 MHz Optional)	2 (3) 4 (6) 8 (10) 16 (20) 25 (32) 32 (40) 40 (50) 50 (60)
X	XSAT-7080 Transceiver	TX RF: 7900 – 8400 MHz RX RF: 7250 – 7750 MHz IF: 70 MHz ± 18 MHz 140 MHz ± 36 MHz (Optional)	10 dBm 5 (6) 10 (12) 25 (32) 50 (63) 100 (125) 125 (150)
Multi	MBT-4000 Multi-Band Transceiver	BUC/BDC Functionality: Available in C-, X- and Ku-Bands	Refer to Datasheet
Multi	MBT-4000B Multi-Band Transceiver	BUC/LNB Functionality: Available in C-, X- and Ku-Bands	Refer to Datasheet

OUTDOOR AMPLIFIERS & BLOCK UP CONVERTERS (BUCS)

Band	Product	Frequency	Watts P1dB (PSAT)*
C	C-Band LPOD Block Up Converter/Transceiver	950 – 1450 MHz Input 5.850 – 6.425 GHz Output	25 (32)
			40 (50)
			50 (60)
			70 (80)
			90 (110)
			100 (125)
			125 (150)
C	C-Band HPOD Amplifier	5.850 – 6.425 GHz 5.850 – 6.725 GHz Optional BUC Option: 950 – 1450 MHz Input with 5.850 – 6.425 GHz Output	200 (250)
			250 (300)
			350 (400)
			400 (500)
			500 (600)**
C			700 (800)**
			800 (1000)**
Ku	Ku-Band LPOD Block Up Converter/Transceiver	950 – 1750 MHz Input 13.75 – 14.50 GHz Output	16 (20)
			25 (32)
			40 (50)
			50 (60)
Ku	Ku-Band HPOD Amplifier	14.00 – 14.50 GHz 13.75 – 14.50 GHz Output Optional BUC Options: 950 – 1450 MHz Input with 14.00 – 14.50 GHz Output	80 (100)
			100 (125)
			175 (200)
			160 (200)**
			200 (250)**
Ku		950 – 1750 MHz Input with 13.75 – 14.50 GHz Output	350 (400)**
X	X-Band HPOD Amplifier	7.90 – 8.40 GHz BUC Option: 950 – 1450 MHz Input with 7.90 – 8.40 GHz Output	200 (250)
			250 (300)
			400 (500)**
X			500 (600)**
X	X-Band LPOD Block Up Converter/Transceiver	950 – 1450 MHz Input 7.90 – 8.40 GHz Output	25 (32)
			40 (50)
			50 (60)
			70 (80)
			90 (110)
			100 (125)
			125 (150)
			175 (200)
			200 (250)

** Phase Combined Systems P1dB (Psat), Watts

INDOOR AMPLIFIERS

Band	Product	Frequency	Watts P1dB
C	CPA Solid State Power Amplifier	5.850 – 6.425 GHz	50, 100, 200, 350
Ku	KPA Solid State Power Amplifier	14.00 – 14.50 GHz	20, 40, 80, 100
X	XPA Solid State Power Amplifier	7.90 – 8.40 GHz	90, 150, 175, 200

Note: P1db over all temp/frequencies, Psat typical, Derate power by 1dB over 6.425 to 6.725 and 13.75 to 14.0 GHz

LOW NOISE AMPLIFIERS

Band	Product	Frequency
C	C-Band Low Noise Power Amplifier (CLNA) & Redundant CLNA	3.40 – 4.20 GHz
		3.625 – 4.2 GHz
		3.625 to 4.8 GHz
		4.5 to 4.8 GHz
		Noise Temp: 30, 35, 40, 45K
X	X-Band Low Noise Power Amplifier (XLNA) & Redundant XLNA	7.75 – 7.75 GHz
		Noise Temp: 40, 45K
Ku	Ku-Band Low Noise Amplifier (KLNA) & Redundant KLNA	10.95 – 12.75 GHz
		Noise Temp: 65, 70, 80, 85K