

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 | 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 |
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| 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 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 | 10 dBm |
| | | 6425 – 6725 MHz (Optional Extended) 5850 – 6650 MHz (Optional Wide) 5845 – 6725 MHz (Optional Super Wide) RX RF: 3400 – 4200 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) |
| 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) |
| | | | 100 (125) |
| | | | 125 (150) |
| | | | 175 (200) |
| 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)** |
| Ku | Ku-Band LPOD Block Up Converter/Transceiver | 950 – 1750 MHz Input 13.75 – 14.50 GHz Output | 16 (20) |
| | | | 25 (32) |
| 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)** |
| X | X-Band HPOD Amplifier | 950 – 1750 MHz Input with 13.75 – 14.50 GHz Output | 350 (400)** |
| | | | 500 (600)** |
| X | X-Band LPOD Block Up Converter/Transceiver | 950 – 1450 MHz Input 7.90 – 8.40 GHz Output | 200 (250) |
| | | | 250 (300) |
| X | X-Band HPOD Amplifier | 7.90 – 8.40 GHz BUC Option: 950 – 1450 MHz Input with 7.90 – 8.40 GHz Output | 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 |
| Ku | Ku-Band Low Noise Amplifier (KLNA) & Redundant KLNA | 10.95 – 12.75 GHz |
| | | Noise Temp: 65, 70, 80, 85K |