

Transceiver Redundancy System

5586/5587

SPECIFICATIONS

IF/RF SWITCHING

Transmit and receive IF switching

| | |
|-----------------------------|--|
| Frequency range | 50 to 180 MHz |
| Impedance | 50 Ω 75 Ω optional |
| Loss | |
| To on-line output | 0.5 dB maximum |
| To off-line output | 50 dB minimum |
| Ripple | ± 0.05 dB typical over 70 \pm 20 MHz and 140 \pm 40 MHz |
| Transmit/receive isolation | 90 dB minimum |
| Connectors | N female |
| Return loss (on-line ports) | 20 dB minimum |
| Transmit IF splitter option | |
| Loss (to On output) | 3.75 dB maximum |
| Ripple | ± 0.07 dB typical over 70 \pm 20 MHz and 140 \pm 40 MHz |

C-Band RF switching

| | |
|---------------------------|----------------------------|
| Frequency range | |
| Transmit | 5.850 to 7.025 GHz |
| Receive | 3.400 to 4.800 GHz |
| Switch loss | |
| Transmit | |
| Coaxial N-type switch | 0.5 dB maximum |
| Waveguide switch | 0.1 dB maximum |
| Receive | 0.1 dB maximum |
| Impedance (N-type switch) | 50 Ω |
| VSWR | |
| Transmit | |
| Coaxial N-type switch | 1.3:1 maximum |
| Waveguide switch | 1.1:1 maximum |
| Receive | 1.1:1 maximum |
| Connectors | |
| Transmit | |
| Coaxial N-type switch | N female |
| Waveguide switch | CPR137G flange, M5 threads |
| Receive | CPR229G flange, M6 threads |

Ku-Band RF switching

(Transmit and receive paths use waveguide switches with identical specifications)

| | |
|-----------------|---------------------------------|
| Frequency range | |
| Transmit | 13.75 to 14.5 GHz |
| Receive | 10.95 to 12.75 GHz |
| Switch loss | 0.05 dB maximum |
| VSWR | 1.1:1 maximum |
| Connectors | WR75, PBR120 flange, M4 threads |

Specifications subject to change without notice or obligation

SWITCHING AND CONTROL

Switching

| | |
|------------------|-------------|
| Operating modes | Auto/manual |
| Switch-over time | 1 s maximum |

Monitor and control

| | |
|--------------------------|--|
| Controls | Auto/manual SSPA inhibit/remote/activate Stream 1/Stream 2 select |
| Indicators | Power Auxiliary supply (5586 only) Stream 1, Stream 2 selected Switch fault, Stream 1 fault, Stream 2 fault |
| Remote interface outputs | Stream 1 fault, Stream 2 fault Stream selected Switch fault Transceiver serial data outputs |
| Remote interface inputs | SSPA activate SSPA inhibit Force stream 1, Force stream 2 Transceiver serial data inputs |

Power supply

| | |
|-------------------|---|
| Voltage | |
| 5586 | 48 V DC, two inputs, connected to both transceiver supplies |
| 5587 | 11 to 16 V DC, powered from 5586 |
| Power consumption | 20 W nominal |

Environmental

| | |
|-----------------------------|--------------------------------|
| Operating temperature range | |
| 5586, RF switches | -40°C to +55°C |
| 5587 | -10°C to +50°C |
| Relative humidity | |
| 5586, RF switches | 100% |
| 5587 | 10% to 95% non-condensing |
| Weatherproofing | |
| 5586, RF switches | Sealed to IP65 |
| 5587 | Unsealed, indoor mounting only |

Mechanical

| | |
|----------------|---|
| Size | |
| 5586 | 300 mm W x 160 mm D x 370 mm H |
| 5587 | Standard 19" rack (1RU) 482 mm W x 70 mm D x 44 mm H |
| Weight | |
| 5586 | 7.3 kg |
| 5587 | 0.5 kg |
| WR229/N switch | 2.6 kg |
| WR229 switch | 2.4 kg |
| WR137 switch | 0.8 kg |
| WR75 switch | 0.5 kg |

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