

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 ± 20 MHz and 140 ± 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 ± 20 MHz and 140 ± 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

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

Specifications subject to change without notice or obligation

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