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DFP 2410

Direction-finding receiver

VHF UHF SHF

20 MHz – 3000 (6000) MHz

The wideband direction-finding receiver DFP 2410, with its coherent real-time bandwidth of 10 MHz, provides seamless direction-finding of communication signals from 20 to 3000 MHz. Due to the continuous processing of its 7 channels, no blind spots are created by switching channels, unlike many systems. Its excellent characteristics of high SFDR, excellent sensitivity and extremely good IP2/IP3 values, makes it possible to detect weak or LPI signals - even when the system is next to strong emitters or in motion. An extension of the frequency range to 6 GHz is available with PLATH Antennas.

TECHNICAL HIGHLIGHTS

- self-calibrating 7 channel parallel processing
- coherent bandwidth of 10 MHz
- processes 10 million channels/s
- scan speed 20 GHz/s
- integrated sub-octave preselection filters
- SFDR ≥ 80 dB
- sensitivity -137 dBm
- short burst detection in automatic mode ≥ 31.25 μ s
- bearing accuracy $\leq 0.5^\circ$ RMS

CUSTOMER ADVANTAGES

- 7 channel design combined with excellent processing parameters leads to high resistance to multipath propagation and high sensitivity even under weak signal conditions
- perfect automatic adaption to different frequency conditions with highest receiver sensitivity through automatic filter selection, processing and online calibration
- fastest, most precise and very reliable bearing through exceptional technical design

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RECEIVER

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RECEIVER

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DFP 2410	
Frequency range	20 MHz – 3000 (6000) MHz
Coherent analogue bandwidth	9.99 MHz
Coherent digital bandwidth	9.99 MHz
Number of subbands	1
Preselection	optional
Frequency resolution	500 Hz – 32 kHz
Gain control	AGC, MGC, AGC+M
Scanning speed	20 GHz/s (@8 kHz frequency resolution)
Processing speed	10,000,000 channels/s
Maximum input level	-
Noise figure	typ. 9 dB
Full dynamic range	165 dB
SFDR2 (in-band)/IMFDR	≥80 dB
MDS (minimum detectable signal)	-135 dBm (@1 kHz frequency resolution)
Image frequency rejection	≥95 dB
Intermediate frequency rejection	≥95 dB
IP2	≥50 dBm
IP3	≥25 dBm
DF method	correlative interferometer
Number of channels	7
DF data resolution	0.1°
DF accuracy	≤0.5° RMS
Monitoring options	n/a
Number of channels	n/a
Bandwidth of channels	n/a
Audio demodulation	CW, AM, FM, USB, LSB, ISB (provided by WIN DF)
Audio bandwidth	-
Frequency stability internal reference	±10 ⁻⁷
Frequency drift	<±5 x 10 ⁻⁷
Nominal impedance	50 Ω
BITE	@ module level
Standards	DIN EN60950-1 (VDE 0805-1)/EN 61000-6-2:2002 /EN 61000-6-3:2002
Operating temperature	+10° C to +40° C
Storage temperature	-40° C to +70° C
Humidity	≤80% (non-condensing)
Protection class	IP 20
Power consumption	24 V DC / 230 V AC 400W / 650 VA
Network interface	LAN 1000 Base-T (TCP/IP)
Weight	43 kg
Size (width/height/depth)	19"/7 RU/596 mm