6U VPX-Transceiver

Fastest tuning transceiver on the market today

- Rugged & Compact
- Open Systems Compliant
- Excellent Phase Noise
- High Dynamic Range
- Built-in LO Generation

High Dynamic Range

RF Coverage: 6-18 GHz, 1 GHz IBW Noise Figure: 17 dB typical Phase Noise: 1 MHz @-113 dBc/Hz Linear Dynamic Range: 90 dB (with 1 MHz BW)

LEDYNE MICROWAVE SOLUTIONS

TSA-219040

Built-in LO Generation

Tuning Speed: 5.0 µs max to within 10 kHz Single-tone, internally generated spurious: -80 dBm (@-10 dBm input and max gain) Reference Frequency Input: 10-100 MHz

Weight

<2.75 kg rugged air-cooled

6U VPX-Transceiver

SPECIFICATIONS

Parameter	Value
Format/Size	6U OpenVPX, single slot
Power	75 W Maximum
Control interface	1 GbE
	consult factory for more options)
Weight	<2.75 kg (rugged air-cooled)
Commercial and rugged air-cooled optic	ons
Down converter specifications	
RF input coverage	6 GHz to 18 GHz
Noise figure	17 dB typical
Gain	(typical RF to IF) 20 dB
Max RF (without damage)	20 dBm
OP1dB (with max gain)	15 dBm
OIP3 (with max gain)	25 – 32 dBm
Attenuation	60 dB in 0.5 dB steps
Linear dynamic range	90 dB (with 1 MHz BW)
Single-tone, signal related spurious	-55 dBc (@-15 dBm Input)
Single-tone, internally generated spuriou	s -80 dBc (@-15 dBm Input)
IF output center frequency	1.9 GHz
IF bandwidth	1.4 GHz to 2.4 GHz
IF band flatness	+/- 2.5 dB typical
Tuning speed	5 µs max (to within 10 kHz)
Tuning resolution	Same as Reference Frequency
VSWR (In/out)	2:1
IF Rejection	-55 dBc
Image Rejection	-55 dBc
LO Leakage	-80 dBm typ. (-70 dBm max)

Specifications subject to change without notice. © 2019 Teledyne Microwave Solutions

Parameter	Value
Up converter specifications	
RF output coverage	6 GHz to 18 GHz
Noise figure	20 dB typical
Gain	(typical IF to RF) 5 dB
OP1dB (with max gain)	10 dBm
Attenuation	60 dB in 0.5 dB steps
Single-tone signal related spurious	-45 dBc (@-10dBm input and max gain)
Single-tone, internally generated spurious	-80 dBm (@-10dBm input and max gain)
IF input center frequency	1.9 GHz
IF bandwidth	1.4 GHz to 2.4 GHz
IF band flatness	+/- 2.5 dB typical
Tuning speed	5.0 µs max (to within 10 kHz)
Tuning resolution	Same as Reference Frequency
VSWR (In/out)	2:1
LO generation specifications	
Reference Frequency Input	10-100 MHz
Converter Composite Phase Noise (with 80MHz Reference)	
100 Hz	-49 dBc/Hz
1 kHz	-74 dBc/Hz
10 kHz	-79 dBc/Hz
100 kHz	-91 dBc/Hz
1 MHz	-113 dBc/Hz
10 MHz	-135 dBc/Hz

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