

AiDC⁺ Integrated MMDS Downconverter

Overview

AiDC⁺ series is TSI's newest version of integrated MMDS downconverter. It provides the best performance-to-cost ratio in the market.

With its front-end filter implementation, AiDC⁺ is protected from interference by WLAN, GSM, 3G...etc. Low phase noise and high linearity design also guarantee AiDC⁺ for your digital applications up to 256QAM.



Key Features

- 256QAM Digital-Ready
- Up to 50km cell coverage
- Integrated dipole
- Easy installation with various
- Low phase noise
- High frequency stability
- Low power consumption
- Meets FCC spectral mask requirement
- RoHS compliant
- UMTS rejection

Applications

- Digital MMDS Video Reception
- MMDS CPE Internet Access

TranSystem. Inc.

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Specification

Category	Parameter	Description
Frequency	Input	2500 ~ 2686 MHz
	Output	222 ~ 408 MHz
Gain	Gain Option	30 dB
	Stability	±2 dB
	Flatness	±0.1 dB @ 6MHz ±1.5 dB @ 222-408 MHz
Local Oscillator	Frequency	1746 MHz
	Stability	±25 KHz over temp.
	Phase Noise	-85 dBc/Hz@1KHz -92 dBc/Hz@10KHz -99 dBc/Hz@100KHz
	LO Leakage	-60 dBm max @ antenna port -45 dBm max @ IF port
Noise Figure	Room Temperature	2 dB typ.
	Over Temperature	3 dB max.
Rejection	Image Rejection	70 dB min
	IF Rejection	80 dB min
	PCS Rejection	90 dB min
	WCS Rejection	52 dB min
	Spurious in F band	-80 dBm max
Input Interface	Impedance	75 ohm
	Connector	F-type Female
Power Supply	Voltage	+15 to +24 VDC
	Current	150mA max (@15VDC)
Environment	Temperature	-30°C ~ +70°C
	Humidity	100% waterproof
	Lighting Protection	Meet or exceeds IEEE specification
Physical Dimension	Dimension	294 x 55 x 31 mm
Accessories Options	Antenna	Corner Reflector (12dBi) Spotbeam (15dBi) Viper (17dBi) Parabolic Mesh (18-25dBi)
	Power Supply	Full Range Adapter & Inserter
Ordering Information AiDC ⁺ XXXXBG	XXXX = LO Freq. in MHz	1838 MHz, 1998 MHz 2246 MHz, 1746 MHz 2286 MHz, 2908 MHz (and more options available)
	B = RF Band	A: 2500-2686 MHz B: 2300-2500 MHz C: 2100-2300 MHz
	G = Gain Option	H: 37 dB gain Blank: 30dB gain
	Rejection	/1 2.4(WiFi) /2 UMTS

Typical value @ 25°C, unless otherwise specified

Specifications are subject to change without prior notice

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