

SIDC Super Integrated MMDS Downconverter

Overview

SIDC series is TSI's high-end version of integrated MMDS downconverter. Field-tested in extreme conditions, the SIDC has been proven to filter out all types of airport and weather radar interference including ASR (Airport Surveillance Radar), Doppler, and NEXRAD (Next Generation Radar System).



Key Features

- 256QAM Digital-Ready
- Various gain options
- Up to 50km cell coverage
- Integrated dipole
- Low phase noise
- High frequency stability
- Low power consumption
- Meets FCC spectral mask requirement
- RoHS compliant

Applications

- Digital MMDS Video Reception
- MMDS CPE Internet Access

TranSystem. Inc.

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Specifications

Category	Parameter	Description
Frequency	Input	2150 ~ 2162 MHz 2500 ~ 2686 MHz
	Output	116 ~ 128 MHz 222 ~ 408 MHz
Gain	Gain Option	18 dB 30 dB 37 dB
	Stability	±2 dB
	Flatness	±0.1 dB @ 6MHz ±1.5 dB @ 116-128 MHz ±1.5 dB @ 222-408 MHz
Local Oscillator	Frequency	2278 MHz 2286 MHz
	Stability	±25 KHz over temp.
	Phase Noise	-92 dBc/Hz@1KHz -95 dBc/Hz@10KHz -102dBc/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	80 dB min
	IF Rejection	80 dB min
	PCS Rejection	100 dB min
	WCS Rejection	52 dB min
	Spurious in F band	-100 dBm max
Input Interface	Impedance	75 ohm
	Connector	F-type Female
Power Supply	Voltage	+15 to +24 VDC
	Current	170mA max (@15VDC)
Environment	Temperature	-30°C ~ +70°C
	Humidity	100% waterproof
	Lighting Protection	Meet or exceeds IEEE specification
Physical Dimension	Dimension	148 x 148 x 88 mm
Accessories Options	Antenna	Comer Reflector (12dBi) Spotbeam (15 dBi)
	Power Supply	Full Range Adapter & Inserter

Typical value @ 25°C, unless otherwise specified

Specifications are subject to change without prior notice

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