

iDC 3018 Downconverter

iDC Features

- *Digital ready meets 64 QAM standard for future expansion.
- *Gain (30 dB), different LO (1838 MHz or customized)
- *Integrated antennas options: 12 dBi Corner Reflector, 18/24 dBi mesh antennas.
- *Lowest noise figures 1.5 ± 0.5 dB max.
- *100% environmental protection with weather protected featuring temperature range from -40°C to 70°C , humidity at 0 to 100%,
- *NTSC, PAL, and SECAM compatible.



TranSystem Inc., a worldwide leader in MMDS/MDS technology, has been designing and manufacturing MMDS down converter since 1992. With a solid design and outstanding workmanship, we are able to sell into the most demanding markets such as the USA and Brazil with at least a hundred thousand units per year.

The “iDC” is the best buy product that TSI ever provides, it benefits from the long term stability and reliability common to all TSI’s products. With its outstanding Phase Noise performance, “iDC” guarantees the operation of the digital 64 QAM TV signal MMDS transmission. “iDC” fits your need in an Analog or Digital MMDS system.



iDC 3018 Specifications

Gain: iDC-3018

Options 30 dB

Flatness +0.1 dB @ 6 MHz

+2.5 dB @ 662~848 MHz

Frequency:

Input 2500~2686 MHz

Output 662~848 MHz

Noise Figure over temperature range:

1.5 ± 0.5 dB

Gain Stability over temperature:

±2 dB

Return Loss:

>10 dB

Power output @ 1 dB compression:

10 dBm

Local Oscillator:

LO Frequency 1838 MHz

LO Frequency Stability ±25 KHz over temp.

LO Phase Noise -75 dBc/Hz @ 100 Hz

-90 dBc/Hz @ 1 KHz

-93 dBc/Hz @ 10 KHz

-105 dBc/Hz @ 100 KHz

-125 dBc/Hz @ 1MHz

LO Leakage:

IF Port <-35 dBm

Antenna Port <-40 dBm

Rejections:

Image Rejection >45 dB

IF Rejection >45 dB

PCS Rejection >55 dB

Spurious in IF band:

<-100 dBm

IMD (2 tone test):

-50 dBc (0 dBm @ output)

Output:

Impedance 75 ohms

Connector E-type female

Power Supply:

Voltage +11 VDC to +20 VDC

Current 170 mA max.

Temperature:

-40 to +70 degrees C

Humidity:

100% weatherproof

Lightning Protection/Surge Protection

Meets IEEE specifications

Note: Typical value @25°C, unless otherwise specified.

Technical specifications are subject to change without prior notice

Rev:01

Accessories Options:

Antenna: Corner Reflector (12dBi), Mounting Bracket for iDC

Mesh Antenna (18, 21, 24dBi)

Power Supply: 110V/220V Adapter & Inserter



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