

Satellite Transceiver

Ka-Band TR 4W



SPECIFICATIONS

◆ Tx Specifications

Tx RF Frequency	29.00-30.00 GHz
IF Frequency	1400-2400 MHz
LO Frequency	27.60 GHz
Ref Signal Type	10 MHz external ref
External Reference	10 MHz, 0±5 dBm
Output Power	4W
Rated/Saturated	36 dBm
ACPR @35dBm	-22 dBc
Small Signal Gain	55±4 dB 51 dB min.
Gain Flatness	1 dB p-p max./36MHz 5 dB p-p max./1000MHz
Gain stability	3 dB p-p
Phase Noise	2.2° max. @RMS 100Hz to 1MHz
Output Spurious	-50 dBc max.

◆ TX Power Supply

Input Power (DC)	+ 18 to +36 VDC
Pwr Consumption	30 W typ. 35 W max.

◆ Physical Parameters

Size (inches)	5.82*3.77*1.96
(mm)	148*96*50
Weight (lbs)	1.76
(kg)	0.8

◆ Interfaces

TX Connector	F-Type (75 Ω)
RX Connector	F-Type (75 Ω)

◆ Rx Specifications

Rx Frequency	17.80-19.00 & 19.00-20.20 GHz 18.20-19.20 & 19.20-20.20 GHz 19.20-20.20 & 20.20-21.20 GHz
Output Frequency	950-1950 MHz / 950-2150 MHz
LO Frequency	16.85 GHz & 18.05 GHz
Dual-LO switched by voltage	17.25 GHz & 18.25 GHz (optional) 18.25 GHz & 19.25 GHz (optional)
LO Stability	Internal Ref: ±3 ppm max.
Noise Figure	1.5 dB typ.
P-1dB	10 dBm min.
Gain	52 dB min.
Gain Flatness	1 dB p-p / 36 MHz max. 5 dB p-p / 1000 MHz max.
Image Rejection	30 dBc
Phase Noise	2.0° max. @ RMS 1kHz to 1MHz

◆ RX Power Supply

Input Power (DC)	+12 to +24 VDC
Pwr Consumption	4 W

Operating Temp	-40 to +55 °C
Humidity	0-100% (condensing)
Altitude	0-10,000 feet ASL
Alarm Indicators	LED *1
protection	IP67

◆ Alarm

Normal	Green always on
TX PLL unlock	Red Flash
Abnormal	Red always on

◆ Part Number / Ordering Information

RGTR-A104-aA01-TXXF-D8

a: Rx Frequency
6= 18.20-20.20 GHz
7= 19.20-21.20 GHz
8= 17.80-20.20 GHz

◆ Contact Information

Website: www.RevGoGlobal.com
Telephone: +1 (703) 348-9933
E-mail: Sales@RevGoGroup.com
Address: 12007 Sunrise Valley Dr., #450
Reston, VA 20191 USA

