

TZ1006 / TZ1006SE Ku-band Mini-BUC

Key Features:

- Very Compact Outline
- High Reliability
- Bi-colour status LED
- IP67 water protection

Models:

- 1.5W standard-Ku TZ1106
- 1.5W extended-Ku TZ1106SE
- 3W standard-Ku TZ1306
- 3W extended-Ku TZ1306SE



(3W extended Ku Model shown)

- Constant Gain VSAT BUC
- Extended Band Ku 13.75 GHz-14.50 GHz
- Low Phase Noise Local Oscillator
- Output Receive Reject Filtering
- Very Compact Rugged Housing with High Thermal Margin
- Mounting & O-ring Hardware Included
- EN 301428 & FCC 47 CFR 15/25 compliant up to 2.4m Antenna
- CE & RED Compliant
- RoHS-2 Compliant



SPECIFICATIONS

TZ1006 / TZ1006SE Ku-Band VSAT BUC

Block Up Converter with External Reference

Parameter		Minimum	Typical	Maximum	Unit	Note
IF Input Frequency Range	TZ1106 / TZ1306	950		1450	MHz	
	TZ1106SE / TZ1306SE	950		1700	MHz	
RF Output Frequency Range	TZ1106 / TZ1306	14.00		14.50	GHz	
	TZ1106SE / TZ1306SE	13.75		14.50	GHz	
Local Oscillator Frequency	TZ1106 / TZ1306		13.05		GHz	
	TZ1106SE / TZ1306SE		12.80		GHz	
Local Oscillator Integrated Phase Noise, 100 Hz - 1 MHz			1.0	2.0	deg	DSB RMS phase jitter
Local Oscillator Reference Frequency			10		MHz	sine wave
RF Output Power P1dB	TZ1106 / TZ1106SE	31.0	31.5		dBm	over all operational conditions
	TZ1306 / TZ1306SE	33.5	34.0		dBm	
	TZ1106 / TZ1106SE		32.0		dBm	at 25°C; 1.6 W
	TZ1306 / TZ1306SE		34.5		dBm	at 25°C; 2.8 W
RF Output ACPR @ P1dB				22	dBc	
RF Output Spurious Level		compliant with EN 301 428 and FCC 47 CFR Part 15/25 with 29-25 log θ antennas up to 2.4m aperture				
RF Output Noise Density	10.95 - 12.75 GHz			-162	dBm/Hz	
Conversion Gain	TZ1106 / TZ1106SE	50	53	56	dBm	over all, operational conditions, and lifetime
	TZ1306 / TZ1306SE	52	55	58	dBm	
IF Input Impedance			75		Ohm	
IF Input Return Loss		10			dB	
Supply Voltage		13		28	V	
Supply Current at P1dB	TZ1106 / TZ1106SE			0.85	A	at 24 V
	TZ1306 / TZ1306SE			1.00	A	
Power Consumption	TZ1106 / TZ1106SE			20	W	at 24 V
	TZ1306 / TZ1306SE			24	W	at 24 V
IF Input Connector			female F-receptacle			
RF Output Connector			WR75 flange, grooved			O-ring included

General Specifications

Parameter	Minimum	Typical	Maximum	Unit	Note
Weight		480		g	
Operating Temperature	-40		+55	°C	
Moisture/Humidity Protection		IP67			