



+44 (0) 1438 310510



**global invacom**  
completing the picture



Sales@globalinvacom.com

Part Number  
F801057 - Pro



**TZ1006SE**  
**Ku - band**  
**Mini BUC**

- ⇒ Constant gain VSAT BUC
- ⇒ Extended band Ku 13.75—14.50 GHz
- ⇒ Low phase noise local oscillator
- ⇒ Output receive reject filtering
- ⇒ Very compact rugged housing with high thermal margin
- ⇒ Mounting & O-ring included
- ⇒ EN 301428 & FCC 47 CFR 15/25 compliant up to 2.4m antenna
- ⇒ CE & Red compliant
- ⇒ RoHS-2 compliant

Key features

- ◆ Very compact outline
- ◆ High reliability
- ◆ Bi-colour status LED
- ◆ IP67 water protection

Models:

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



+44 (0) 1438 310510



**global invacom**  
completing the picture



Sales@globalinvacom.com

### Electrical Specification

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		14.5	GHz	
	TZ1106SE/TZ1306SE	13.75		14.5	GHz	
Local Oscillator Frequency	TZ1106/TZ1306		13.05		GHz	
	TZ1106SE/TZ1306SE		12.8		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	31.5		dBm	over all operational conditions
	TZ1306/TZ1306SE	33.5	34		dBm	
	TZ1106/TZ1106SE		32		dBm	at 25°C; 1.6W
	TZ1306/TZ1306SE		34.5		dBm	at 25°C; 2.8W
RF output ACPR @ P1dB				22	dBc	
RF output spurious level	Compliant with EN 301 428 & FCC 47 CFR part 15/25 with 29-25 log $\Theta$ antennas up to 2.4 aperture					
RF output noise density	10.95 - 12.75 GHz			-162	dBm/ Hz	
Conversion gain	TZ1106/TZ1106SE	50	53	56	dBm	
	TZ1306/TZ1306SE	52	55	58	dBm	
IF input impedance			75		Ohm	
IF input return loss		10			dB	
Supply voltage		13		28	V	
Supply current P1dB	TZ1106/TZ1106SE			0.85	A	at 24V
	TZ1306/TZ1306SE			1	A	
Power consumption	TZ1106/TZ1106SE			20	W	at 24V
	TZ1306/TZ1306SE			24	W	at 24V
IF input connector	Female F-receptacle					
RF output connector	WR75 flange, grooved					

### General Specification

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

Reg No: 2319127

Global Invacom Ltd  
First Floor Freeman house, John Roberts Business Park, Bean hill  
Canterbury  
CT5 3BJ

VAT No. GB594 7656 78