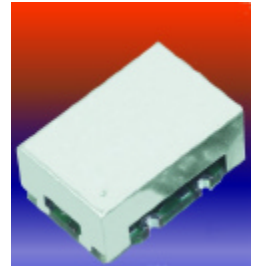


Typical Applications

SDH/SONET
ATM
WLL
Measurement Equipment

Features

Meets **Stratum III** Overall Stability
Standard Surface Mount Package
Small Size
High Stability
EFC Optional
Very Low Aging



Frequency range

10 MHz – 33 MHz

Standard Frequencies

12.8 MHz

Frequency stabilities

Parameter	Frequency stability	Operating temp range
vs. Operating temperature range	typ. ± 0.8 ppm	-20 ... +70°C
Parameter	Value	Condition
Initial tolerance	typ. ± 1.0 ppm	@ 25 °C
vs. Supply voltage change	typ. ± 0.1 ppm	$V_S \pm 5\%$
vs. Load change	typ. ± 0.1 ppm	Load $\pm 10\%$
vs. Aging / 15 years	typ. ± 2.5 ppm	
Overall tolerance 15 years	$< \pm 4.6$ ppm	

Frequency tuning

Parameter	Value	Condition
Electrical freq. control (EFC)	$> \pm 5.0$ ppm	Note 1
Voltage range (V_C)	0.3 to 3.0 V	@ $V_S = 3.3$ V
Pulling slope	Positive	
Freq. control input impedance	> 10 k Ω	

RF output

Parameter	Value	Condition
Signal	HCMOS	
Load	15pF $\pm 10\%$	
Duty cycle	40/60%	@ $V_S/2$

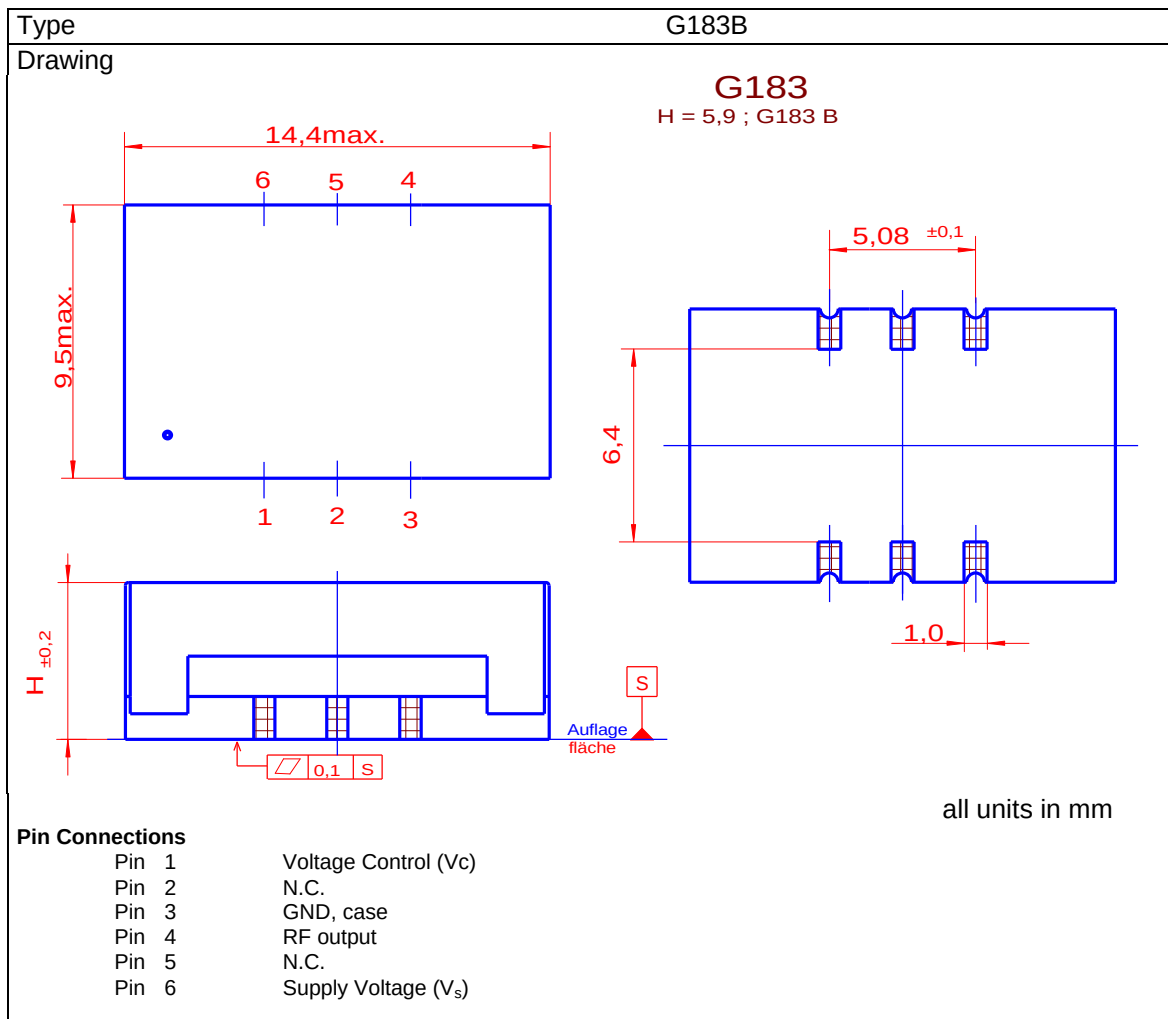
Supply voltage

Supply voltage (V_S)	3.3 V $\pm 5\%$	
Current consumption	< 15 mA	

Additional parameters

Parameter	Value	Condition
Phase Noise	tbd. dBc/Hz	10 Hz
	tbd. dBc/Hz	100 Hz
	tbd. dBc/Hz	1 kHz
	tbd. dBc/Hz	10 kHz
	tbd. dBc/Hz	100 kHz
Weight	< 3 g	
Operable temperature range	-30 ... +80°C	
Storage temperature range	-55 ... +105°C	
Processing & Packing	handling&processing note	

Enclosure



Ordering Code		
	Model	Frequency
Example:	STO50S3	19M44000
Order:	STO50S3	

Notes

1 Others available

2 Typical values @ 12.8 MHz

Unless otherwise stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C)
Subject to technical modification; Not all options are available at all Frequencies