



**10MHz VSAT Generator Rack Shelf**

**SV-GEN/A\*-DC**

**Description**

The Global Professional 10MHz VSAT Generator is a high Stability reference source for VSAT Block Upconverters. Simply placed into the L Band signal path the unit inserts 10MHz onto the outgoing L Band.

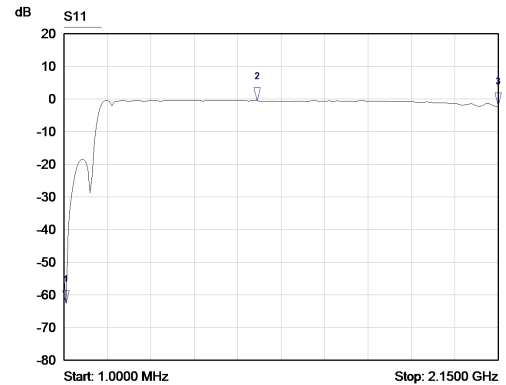
The Unit offers a front panel switch to select either a 15VDC-50V DC injection onto the L Band path or to block DC to the BUC L-Band Path.

The product has been designed to allow modules to be rack mounted for ease of installation. Dual redundant power supplies are fitted as standard and a wide range of connector options are available.

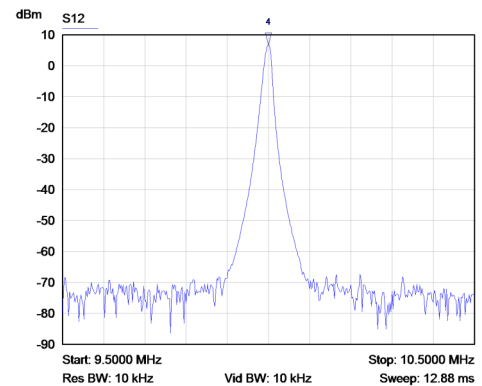


**Specifications**

|                               |  |
|-------------------------------|--|
| Output Frequency              | 10MHz  |
| Output Level                  | +7dBm +/-1dB   |
| Temperature Stability         | <3 x 10 <sup>-9</sup> over range -20C to +70C  |
| Stability with Supply Voltage | <2 x 10 <sup>-9</sup> for a 10% Change.  |
| Stability with Load Change    | <5 x 10 <sup>-10</sup> for a 10% change from 50 Ohms   |
| Short Term Stability          | <1 x 10 <sup>-11</sup>   |
| Phase Noise                   | 10Hz -130dBc/Hz<br>100Hz -145dBc/Hz<br>1KHz - 155dBc/Hz<br>10KHz - 158dBc/Hz<br>50KHz - 160dBc/Hz  |
| Warm Up Error                 | +/- 1 x 10 <sup>-8</sup> of final frequency after 8 minutes max at +25C  |
| Frequency Adjustment          | Sufficient for Min 10 years ageing   |
| Harmonics                     | <-30dB W.R.T Carrier   |
| Through Loss                  | Nominal 0db +/- 0.5dB  |
| Humidity                      | >90% Non Condensing  |
| Input Voltage                 | 230V AC  |
| Connector Options*            | <ul style="list-style-type: none"> <li>• N' Type 50 Ohm Female</li> <li>• 'SMA' 50 Ohm Female</li> <li>• 'F' 75 Ohm Female</li> <li>• 'BNC' 50 Ohm Female</li> <li>• 'BNC' 75 Ohm Female</li> <li>• 'TNC' 50 Ohm Female</li> </ul> |
| External Dimensions           | 1U   |
| Weight                        | 2.9kg  |
| RoSH/WEEE Compliant           | YES  |



| Mkr | Trace | X-Axis       | Value     | Notes |
|-----|-------|--------------|-----------|-------|
| 1   | S11   | 11.7450 MHz  | -62.67 dB |       |
| 2   | S11   | 957.3050 MHz | -0.53 dB  |       |
| 3   | S11   | 2.1500 GHz   | -2.14 dB  |       |



| Mkr | Trace | X-Axis      | Value    | Notes |
|-----|-------|-------------|----------|-------|
| 4   | S12   | 10.0000 MHz | 6.71 dBm |       |

VSAT

**All systems are designed and built to order.  
Please contact us to discuss your exact requirements.**