

MAIN FEATURES

- ❖ Fast switching speed
- ❖ Low phase noise
- ❖ High reliability
- ❖ High output power
- ❖ Built-in high stability reference



DESCRIPTION

This synthesizer is intended for use in professional applications, where fast switching speed, low phase noise and high reliability are important factors. This unit has been designed to operate in harsh environmental conditions such as wide temperature range, shock and vibration. Main applications are in satellite and telecommunications systems.

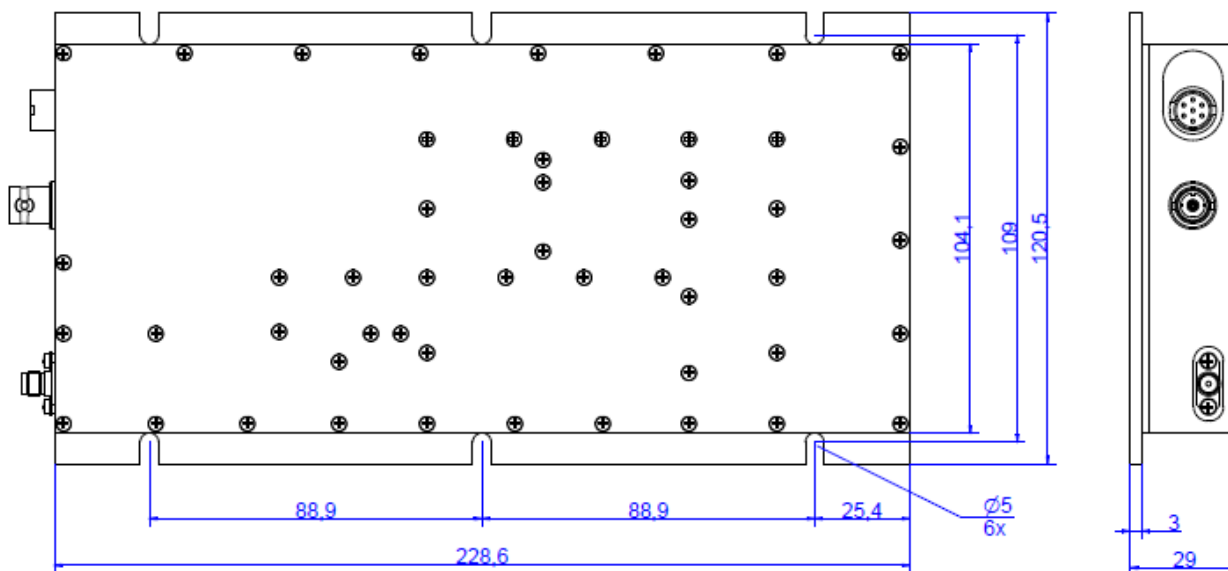
SPECIFICATIONS

| | | |
|--------------------------------|--|---------------------------------|
| Frequency range | 9180-9455MHz | |
| Number of switched frequencies | 6 (preprogrammed by factory) F1: 9180MHz F2: 9235MHz F3: 9290MHz F4: 9345MHz F5: 9400MHz F6: 9455MHz | |
| Switching time | <700usec | |
| Frequency stability | <±1ppm | |
| Output power | ≥ +17dBm, +20dBm typ. | |
| Output power variation | <±2dB over temperature and frequency range | |
| Output VSWR | <1.5:1 | |
| Harmonics | <-35dBc, -40dBc typ. | |
| Phase noise | @offset | |
| | 100Hz | -73dBc/Hz typ; -70dBc/Hz max. |
| | 1kHz | -95dBc/Hz typ; -93dBc/Hz max. |
| | 10kHz | -97dBc/Hz typ; -95dBc/Hz max. |
| | 100kHz | -110dBc/Hz typ; -105dBc/Hz max. |
| | 1MHz | -133dBc/Hz typ; -130dBc/Hz max. |
| | 10MHz | -151dBc/Hz typ; -148dBc/Hz max. |
| Spurious | <-70dBc | |
| Frequency select | Active level LOW on the control pin of the selected channel, internal 20kΩ pull up resistor to +5V. | |
| Dimension | 228.6x120.5x29mm | |

| | |
|-----------------------------|---|
| Finish | Painted with FED-STD 595, shade #25184. Bottom plate not painted. |
| DC connector | BNC (F) |
| RF connector | SMA (F) |
| Frequency control | VIKING VR7 / 4AB13 |
| Power supply | +28V/230mA typ. |
| Operating temperature range | -40°C to +70°C |
| Storage temperature range: | -40°C to +85°C |
| Humidity | 90% RH at +40°C (non condensing) |
| Shock | 30g/10ms |
| Random Vibration | 4g rms, 20Hz to 2000Hz in 3-Axes |

Specifications are subject to change without notice.

OUTLINE DRAWING (mm)



ORDERING INFORMATION

| MODEL NUMBER | DESCRIPTION |
|--------------|--|
| BSVX33K10926 | BSVX33 X-band, 9180-9455MHz, 6 preprogrammed frequencies STALO |

DOCUMENT REVISION

| DOCUMENT NAME | REVISION | DATE |
|------------------|----------|------------|
| BSVX33-LM-K10926 | V01 | 29/03/2023 |