

VMFDT5B-600/2600-N/N series

FEATURES

- ◆ Designed for Lab Use and Test Applications
- ◆ Digital Control, RS485

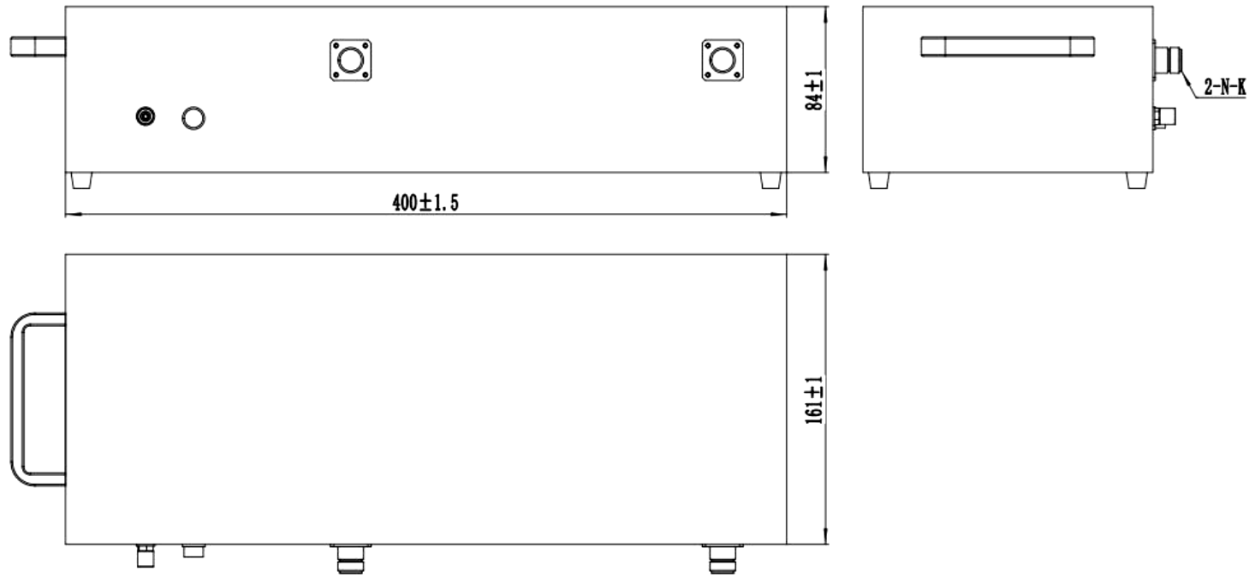
SPECIFICATIONS

| Part Number | Tuning Range (MHz) | Insertion Loss (dB) @Center Frequency | 3dB BW (MHz) | 30dB/3dB | 50dB/3dB |
|----------------------------|--------------------|---------------------------------------|--------------|----------|----------|
| VMFDT5B-600/1200-1-N/N-RS | 600-1200 | ≤3.0 | 1% | ≤2.6 | ≤4.1 |
| VMFDT5B-600/1200-2-N/N-RS | 600-1200 | ≤2.1 | 2% | ≤2.5 | ≤3.9 |
| VMFDT5B-600/1200-5-N/N-RS | 600-1200 | ≤1.5 | 5% | ≤2.5 | ≤3.9 |
| VMFDT5B-1200/2600-1-N/N-RS | 1200-2600 | ≤3.0 | 1% | ≤2.6 | ≤4.1 |
| VMFDT5B-1200/2600-2-N/N-RS | 1200-2600 | ≤2.1 | 2% | ≤2.5 | ≤3.9 |
| VMFDT5B-1200/2600-5-N/N-RS | 1200-2600 | ≤1.6 | 5% | ≤2.5 | ≤3.9 |

| Parameter | Function | Parameter | Function |
|---------------------------|-------------|-----------------|----------|
| Number of Sections | 5 | Port Connectors | N-K |
| Passband VSWR | 2 | Power Handling | ≥100W CW |
| Size (mm) | 400*161*84 | Impedance | 50Ω |
| Typical Digital Interface | RS485 | Voltage Supply | 28V±2V |
| Operating Temperature | +10 ~ +50°C | Tuning Time | ≤10s |

OUTLINE DRAWING

Unit: mm



Note: The position of the RF connector varies per frequency band, all other aspects remain the same.

INTERFACE DEFINITION

| | | | | | |
|-------------------|--------|--------|------|--------|--------|
| PIN Number | 1 | 2 | 4 | 5 | 6 |
| Function | +28V | PGND | SGND | RX485- | RX485+ |
| PIN Number | 7 | 8 | 9 | 11 | 12 |
| Function | TX485- | TX485+ | / | / | / |

RS485 CONTROL DEFINITION

Serial port baud rate: 115200kbps

Set Frequency (MHz): Total 6 byte sent

0xFE 0x00 0x00 0x Frequency×10 High 8 Byte 0x Frequency×10 Low 8 Byte 0xAA

e.g.

Set Frequency: 650MHz

$650 * 10 = 6500$ (1964)

Sending Data: 0xFE 0x00 0x00 0x19 0x64 0xAA

Set Frequency: 750MHz

$750 * 10 = 7500$ (1D4C)

Sending Data: 0xFE 0x00 0x00 0x1D 0x4C 0XAA

Set Frequency: 1000MHz

$1000 * 10 = 10000$ (2710)

Sending Data: 0xFE 0x00 0x00 0x27 0x10 0xAA

Set Frequency: 1000MHz

$1000 * 10 = 10000$ (4E20)

Sending Data: 0xFE 0x00 0x00 0x27 0x10 0xAA