The VG Series products are designed for Mass Interconnect terminations of Rack & Stack test systems. There are several VG receiver available which will accept any fixtures with a Pylon Interface. Such fixtures are also available from ECT in different sizes.

Although someone might say with a smile that “VG” stands for “Very Good”, whereas the right abbreviation VG is:

- “V”: VXI (Vme Xtensions for Instrumentation) and
- “G”: GPIB (General Purpose Instrument Bus/ HPIB / IEEE-488).

There are a number of different block types:

- “Coax: up to 18 GHz
- “Power: up to 50 Amps per pin
- “Coax & Power combined
- “Signal: up to 170 pins, @250VAC/5 Amps
- “Pneumatic: up to 13 fittings
- “Vacuum: port modules

Other blocks or cable assemblies are available upon request; please contact your closest ECT location.

These products were developed and produced by TTI-Testron, which was acquired by ECT in 1999. Since then ECT continued to provide the VG Series Mass Interconnect product through their worldwide distribution channels.

Typical industry applications are for example Aircraft, Military, Medical, Consumer Electronics, Networking, Telecommunications and Test Systems…
VG Receiver

Mini 4 Block Desktop Receiver
Model Number: VGR4
P/No: 122
To be used for small bench-top test requirements with max. 4 receiver blocks.
No vacuum port module to be used.
For the fixture side a metal Adapter Box VGF4-0808-AB (P/No 123), size 8x8” (203 x 203mm) is available.

12 Block Desktop Receiver
Model Number: VGR12
P/No: 21
To be used for all fixtures with a Pylon interface (GenRad, ITA, R&S).
Up to 10 VG receiver blocks and max. 2 vacuum port modules can be installed.
Vacuum port module to be ordered separately VGRCB-VPM (P/No 576).

12 Block Rack Mount Receiver
Model Number: VGR12-RM1
P/No: 140
Same as above VGR12 but for mounting in a 19” Rack.

24 Block Double-Row Desktop Receiver
Model Number: VGR24
P/No: 207
The VGR24 will accommodate up to 22 receiver blocks and a max. of 2 vacuum port modules in the bottom or top row.

24 Block Double-Row Rack Mount Receiver
Model Number: VGR24-RM1
P/No: 206
Same as above VGR24 but for mounting in a 19” Rack.

Dimensions of the Rack Mount Receivers VGR12-RM1 and VGR24-RM1

* VGR24-RM1 adds an additional 2U to the height
1U = 1.75” (44.5 mm)

Dimensions in inches (millimeters)
Specifications subject to change without notice
Mass Interconnect Products

**Coax VG Blocks**

**4-Position up to 18 GHz Block**

**Model Number**: VGRCB-4C

**P/No**: 611

**Impedance**: 50 Ω

**It includes**:
- 2 installed alignment pins
- 2 installed floating mounting screws
- 4 holes (without contacts)

The coax contacts must be ordered separately under P/No A32434

(50 Ω blind mate jack contact for a SMA connector)

**9-Position up to 18 GHz Block**

**Model Number**: VGRCB-9C

**P/No**: 1121

**Impedance**: 50 Ω

**It includes**:
- 2 installed alignment pins
- 2 installed floating mounting screws
- 9 holes (without contacts)

The coax 50 Ω blind mate plug contacts must be ordered separately

- for crimp connection: A31897
- for SMA connection: A35764

**13-Position up to 3.7 GHz Block**

**Model Number**: VGRCB-13C

**P/No**: 482

**Impedance**: 50 Ω

**It includes**:
- 2 installed alignment pins
- 2 installed floating mounting screws
- 13 installed coax contacts

(The center conductor and the outer shell are spring loaded)

- Replacement Coax Receiver probe: P/No 480
- Replacement center probe: A35860

**4-Position up to 18 GHz Block**

**Model Number**: VGFCB-4C

**P/No**: 610

**Impedance**: 50 Ω

**It includes**:
- 2 installed bushings
- 2 screws 4-40
- 4 holes (without contacts)

The coax contacts must be ordered separately under P/No A32434

(50 Ω blind mate jack contact for a SMA connector)

**9-Position up to 18 GHz Block**

**Model Number**: VGFCB-9C

**P/No**: 1122

**Impedance**: 50 Ω

**It includes**:
- 2 installed bushings
- 2 screws 4-40
- 9 holes (without contacts)

The coax 50 Ω blind mate plug contacts must be ordered separately

- for crimp connection: A31897
- for SMA connection: A35764

**13-Position up to 3.7 GHz Block**

**Model Number**: VGFCB-13C

**P/No**: 483

**Impedance**: 50 Ω

**It includes**:
- 2 installed bushings
- 2 screws 4-40
- 13 installed coax contacts

- Replacement Coax Fixture probe P/No 481

Pictures show assembled VG-Blocks

Specifications subject to change without notice
<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGRCB-13CPF</td>
<td>13-Position 50 Ω Coax/Power Block</td>
</tr>
<tr>
<td>VGRCB-15CPF</td>
<td>15-Position 50 Ω Coax/Power Block</td>
</tr>
<tr>
<td>VGRCB-22CPF</td>
<td>22-Position 50 Ω Coax/Power Block</td>
</tr>
<tr>
<td>VGFCB-13CPF</td>
<td>13-Position 50 Ω Coax/Power Block</td>
</tr>
<tr>
<td>VGFCB-15CPF</td>
<td>15-Position 50 Ω Coax/Power Block</td>
</tr>
<tr>
<td>VGFCB-22CPF</td>
<td>22-Position 50 Ω Coax/Power Block</td>
</tr>
</tbody>
</table>

**Receiver Side**

- **13-Position 50 Ω Coax/Power Block**
  - Model Number: VGRCB-13CPF
  - P/No: 580
  - Coax contact up to 500 MHz
  - Power contact up to 30 Amps
  - **It includes**
    - 2 installed alignment pins
    - 2 installed floating mounting screws
    - 13 holes (without contacts)
  - **Contacts must be ordered separately**
    - Coax contact with 36” coax cable
      - CR-CA50RG174-36 P/No 637
    - Power contact
      - CR-610116102

- **15-Position 50 Ω Coax/Power Block**
  - Model Number: VGRCB-15CPF
  - P/No: 910
  - Coax contact up to 500 MHz
  - Power contact up to 30 Amps
  - **It includes**
    - 2 installed alignment pins
    - 2 installed floating mounting screws
    - 15 holes (without contacts)
  - **Contacts must be ordered separately**
    - Coax contact with 36” coax cable
      - CR-CA50RG174-36 P/No 637
    - Power contact
      - CR-610116102

- **22-Position 50 Ω Coax/Power Block**
  - Model Number: VGRCB-22CPF
  - P/No: 527
  - Coax contact up to 1 GHz
  - Power contact up to 50 Amps/250 VAC
  - **It includes**
    - 2 installed alignment pins
    - 2 installed floating mounting screws
    - 22 holes (without contacts)
  - **Contacts must be ordered separately**
    - Mini coax contact 610104114 or
    - Coax contact with 36” coax cable
      - CR-CA50RG174-36 P/No 643
    - Mini power contact CR-610116112

**Fixture Side**

- **13-Position 50 Ω Coax/Power Block**
  - Model Number: VGFCB-13CPF
  - P/No: 579
  - Coax contact up to 500 MHz
  - Power contact up to 30 Amps
  - **It includes**
    - 2 installed bushings
    - 2 screws 4-40
    - 13 holes (without contacts)
  - **Contacts must be ordered separately**
    - Coax contact with 36” coax cable
      - CF-CA50RG174-36 P/No 623
    - Power contact
      - CF-610115102 for 10 AWG
      - CF-610115103 for 12 AWG

- **15-Position 50 Ω Coax/Power Block**
  - Model Number: VGFCB-15CPF
  - P/No: 911
  - Coax contact up to 500 MHz
  - Power contact up to 30 Amps
  - **It includes**
    - 2 tooling holes
    - 2 screws 4-40
    - 15 holes (without contacts)
  - **Contacts must be ordered separately**
    - Coax contact with 36” coax cable
      - CF-CA50RG174-36 P/No 623
    - Power contact
      - CF-610115102 for 10 AWG
      - CF-610115103 for 12 AWG

- **22-Position 50 Ω Coax/Power Block**
  - Model Number: VGFCB-22CPF
  - P/No: 528
  - Coax contact up to 1 GHz
  - Power contact up to 50 Amps/250 VAC
  - **It includes**
    - 2 installed bushings
    - 2 screws 4-40
    - 22 holes (without contacts)
  - **Contacts must be ordered separately**
    - Mini coax contact 610103115 or
    - Coax contact with 36” coax cable
      - CF-CA50RG174-36 P/No 632
    - Mini power contact CF-0883011-02
### Receiver Side

#### 24-Position 50 Ω Coax/Power Block

- **Model Number**: VGRCB-24CPF
- **P/No**: 908
- **Coax contact up to 1 GHz**
- **Power contact up to 50 Amps/250 VAC**

**It includes**
- 2 installed alignment pins
- 2 installed floating mounting screws
- 24 holes (without contacts)

**Contacts must be ordered separately**
- Mini coax contact 610104114 or
- Coax contact with 36” coax cable CR-CA50RG174-36; P/No 643
- Mini power contact CR-610116112

#### 30-Position 50 Ω Coax/Power Block

- **Model Number**: VGRCB-30CPF
- **P/No**: 525
- **Coax contact up to 1 GHz**
- **Power contact up to 50 Amps/250 VAC**

**It includes**
- 2 installed alignment pins
- 2 installed floating mounting screws
- 30 holes (without contacts)

**Contacts must be ordered separately**
- Mini coax contact 610104114 or
- Coax contact with 36” coax cable CR-CA50RG174-36; P/No 643
- Mini power contact CR-610116112

#### 32-Position 50 Ω Coax/Power Block

- **Model Number**: VGRCB-32CPF
- **P/No**: 908
- **Coax contact up to 1 GHz**
- **Power contact up to 50 Amps/250 VAC**

**It includes**
- 2 installed alignment pins
- 2 installed floating mounting screws
- 32 holes (without contacts)

**Contacts must be ordered separately**
- Mini coax contact 610104114 or
- Coax contact with 36” coax cable CR-CA50RG174-36; P/No 643
- Mini power contact CR-610116112

### Fixture Side

#### 24-Position 50 Ω Coax/Power Block

- **Model Number**: VGFCB-24CPF
- **P/No**: 909
- **Coax contact up to 1 GHz**
- **Power contact up to 50 Amps/250 VAC**

**It includes**
- 2 installed bushings
- 2 screws 4-40
- 24 holes (without contacts)

**Contacts must be ordered separately**
- Mini coax contact 610103115 or
- Coax contact with 36” coax cable CF-CA50RG174-36; P/No 632
- Mini power contact CF-0883011-02

#### 30-Position 50 Ω Coax/Power Block

- **Model Number**: VGFCB-30CPF
- **P/No**: 526
- **Coax contact up to 1 GHz**
- **Power contact up to 50 Amps/250 VAC**

**It includes**
- 2 installed bushings
- 2 screws 4-40
- 30 holes (without contacts)

**Contacts must be ordered separately**
- Mini coax contact 610103115 or
- Coax contact with 36” coax cable CF-CA50RG174-36; P/No 632
- Mini power contact CF-0883011-02

#### 32-Position 50 Ω Coax/Power Block

- **Model Number**: VGFCB-32CPF
- **P/No**: 907
- **Coax contact up to 1 GHz**
- **Power contact up to 50 Amps/250 VAC**

**It includes**
- 2 installed bushings
- 2 screws 4-40
- 32 holes (without contacts)

**Contacts must be ordered separately**
- Mini coax contact 610103115 or
- Coax contact with 36” coax cable CF-CA50RG174-36; P/No 632
- Mini power contact CF-0883011-02

---

**Notes:**
- Pictures show assembled VG-Blocks.
- Specifications subject to change without notice.
**Mass Interconnect Products**

**Coax / Power / Signal / Pneumatic Blocks**

<table>
<thead>
<tr>
<th><strong>39-Position 50 Ω Coax/Power/Signal Block</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number: VGRCB-39CPS</td>
</tr>
<tr>
<td>P/No: 904</td>
</tr>
<tr>
<td>Coax contact up to 1 GHz</td>
</tr>
<tr>
<td>Power contact up to 50Amps/250VAC</td>
</tr>
<tr>
<td>Signal contact up to 10 Amps</td>
</tr>
<tr>
<td><strong>It includes:</strong></td>
</tr>
<tr>
<td>2 installed alignment pins</td>
</tr>
<tr>
<td>2 installed floating mounting screws</td>
</tr>
<tr>
<td>39 holes (without contacts): of which 19 are for coax/power contact and 20 for signal contact</td>
</tr>
<tr>
<td><strong>Contacts must be ordered separately</strong></td>
</tr>
<tr>
<td>• Mini coax contact 610104114 or</td>
</tr>
<tr>
<td>• Coax contact with 36” coax cable CR-CA50RG174-36: P/No 643</td>
</tr>
<tr>
<td>• Mini power contact CR-610116112</td>
</tr>
<tr>
<td>• Signal contact 610110101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>32-Position Power Block</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number: VGRCB-32P</td>
</tr>
<tr>
<td>P/No: 687</td>
</tr>
<tr>
<td>Current rating: 25 Amps</td>
</tr>
<tr>
<td><strong>It includes:</strong></td>
</tr>
<tr>
<td>32 installed gold-plated receptacles with aligned solder cups, flush mounted</td>
</tr>
<tr>
<td>2 screws 4-40</td>
</tr>
<tr>
<td><strong>The high current probes with a spear tip must be ordered separately</strong></td>
</tr>
<tr>
<td>P/No VGR32P-HCP or HCP-14B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>13-Position Pneumatic Lines Block</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number: VGRCB-13PNEU</td>
</tr>
<tr>
<td>P/No: 902</td>
</tr>
<tr>
<td><strong>It includes:</strong></td>
</tr>
<tr>
<td>13 installed pneumatic fittings with a through-hole of .125” (3.2mm) Ø and at the far-side a .157” (4.0mm) Ø barbe for 4 mm hose connections</td>
</tr>
<tr>
<td>2 installed guide pins</td>
</tr>
<tr>
<td>2 installed floating mounting screws</td>
</tr>
<tr>
<td><strong>Replacement parts are</strong></td>
</tr>
<tr>
<td>• receiver air fitting contact A32431</td>
</tr>
<tr>
<td>• O-Ring A34432</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>39-Position 50 Ω Coax/Power/Signal Block</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number: VGFCB-39CPS</td>
</tr>
<tr>
<td>P/No: 905</td>
</tr>
<tr>
<td>Coax contact up to 1 GHz</td>
</tr>
<tr>
<td>Power contact up to 50Amps/250VAC</td>
</tr>
<tr>
<td>Signal contact up to 10 Amps</td>
</tr>
<tr>
<td><strong>It includes:</strong></td>
</tr>
<tr>
<td>2 installed bushings</td>
</tr>
<tr>
<td>2 screws 4-40</td>
</tr>
<tr>
<td>39 holes (without contacts): of which 19 are for coax/power contact and 20 for signal contact</td>
</tr>
<tr>
<td><strong>Contacts must be ordered separately</strong></td>
</tr>
<tr>
<td>• Mini coax contact 610103115 or</td>
</tr>
<tr>
<td>• Coax contact with 36” coax cable CR-CA50RG174-36: P/No 632</td>
</tr>
<tr>
<td>• Mini power contact CF-0883011-02</td>
</tr>
<tr>
<td>• Signal contact 610110108</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>32-Position Power Block</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number: VGFCB-32P</td>
</tr>
<tr>
<td>P/No: 686</td>
</tr>
<tr>
<td>Current rating: 25 Amps</td>
</tr>
<tr>
<td><strong>It includes:</strong></td>
</tr>
<tr>
<td>32 installed gold-plated solder pot contacts with flat heads .177” (4,5mm) Ø</td>
</tr>
<tr>
<td>2 screws 4-40</td>
</tr>
<tr>
<td>Replacement contact: A10206</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>13-Position Pneumatic Lines Block</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number: VGFCB-13PNEU</td>
</tr>
<tr>
<td>P/No: 903</td>
</tr>
<tr>
<td><strong>It includes:</strong></td>
</tr>
<tr>
<td>13 installed pneumatic fittings with a through-hole of .125” (3,2mm) Ø and at the far-side a .157” (4,0mm) Ø barbe for 4 mm hose connections</td>
</tr>
<tr>
<td>2 installed bushings</td>
</tr>
<tr>
<td>2 installed mounting screws 4-40</td>
</tr>
<tr>
<td><strong>Replacement parts are</strong></td>
</tr>
<tr>
<td>• fixture air fitting contact A32432</td>
</tr>
</tbody>
</table>

*Pictures show assembled VG-Blocks
Specifications subject to change without notice*
### Receiver Side

#### 136-Position Signal Block

For use with ribbon cables plugging directly onto the back of the blocks.

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>P/No</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGRCB-136</td>
<td>820479</td>
<td>with square 25mil wire wrap receptacles</td>
</tr>
<tr>
<td>VGRCB-136F</td>
<td>820415</td>
<td>same as above but floating block</td>
</tr>
<tr>
<td>VGRCB-136R</td>
<td>912</td>
<td>with 25mil Ø round pin receptacles</td>
</tr>
<tr>
<td>VGRCB-136F-R</td>
<td>820424</td>
<td>Floating block with round pin receptacles</td>
</tr>
</tbody>
</table>

**It includes**
- 136 installed receptacles (the square pins are not aligned)
- 136 installed spring loaded probes with .160” (4,1mm) full travel
- 2 alignment pins in the floating blocks
- 2 screws 4-40 or 2 floating mounting screws

**Replacement parts are**
- Probes: EPA-2B40
- Receptacles: SPR-2W-2 with square WW-pin SDN160R with round pin or SPR-2W-3 gold plated with round pins

#### 170-Position Signal Block

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>P/No</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGRCB-170</td>
<td>B10783-1L</td>
<td>with square 25mil wire wrap receptacles</td>
</tr>
<tr>
<td>VGRCB-170F</td>
<td>820411</td>
<td>same as above but floating block</td>
</tr>
<tr>
<td>VGRCB-170R</td>
<td>B10783-R</td>
<td>with 25mil Ø round pin receptacles</td>
</tr>
<tr>
<td>VGRCB-170F-R</td>
<td>820423</td>
<td>Floating block with round pin receptacles</td>
</tr>
</tbody>
</table>

**It includes**
- 170 installed receptacles (the square pins are aligned)
- 170 installed spring loaded probes with .160” (4,1mm) full travel
- 2 alignment pins in the floating blocks
- 2 screws 4-40 or 2 floating mounting screws

**Replacement parts are**
- Probes: EPA-2B40, Receptacles: SPR-2W-2 with square WW-pin SDN160R with round pin or SPR-2W-3 gold plated with round pins

### Fixture Side

#### 136-Position Signal Block

For use with ribbon cables plugging directly onto the back of the blocks.

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>P/No</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGFCB-136</td>
<td>900</td>
<td>with square 25mil wire wrap pins</td>
</tr>
<tr>
<td>VGFCB-136F</td>
<td>820417</td>
<td>same as above but for floating block</td>
</tr>
<tr>
<td>VGFCB-136R</td>
<td>820494</td>
<td>with 25mil Ø round pins</td>
</tr>
</tbody>
</table>

**It includes**
- 136 gold plated contacts with flat heads (the square pins are aligned)
- 2 installed bushings in the floating block
- 2 screws 4-40

**Replacement parts are**
- Contacts with square pin SIP-90-2
- Contacts with round pin A12962

#### 170-Position Signal Block

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>P/No</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGFCB-170</td>
<td>B10031-VLD</td>
<td>with square 25mil wire wrap pins</td>
</tr>
<tr>
<td>VGFCB-170F</td>
<td>820413</td>
<td>same as above but for floating block</td>
</tr>
<tr>
<td>VGFCB-170R</td>
<td>660</td>
<td>with 25mil Ø round pins</td>
</tr>
<tr>
<td>VGFCB-170F-R</td>
<td>820422</td>
<td>Floating block with round pin receptacles</td>
</tr>
</tbody>
</table>

**It includes**
- 170 gold plated contacts with flat heads (the square pins are aligned)
- 2 installed bushings in the floating blocks
- 2 screws 4-40

**Replacement parts are**
- Contacts with square pin SIP-90-2
- Contacts with round pin A12962
## Vacuum Port Modules / Tools

### Receiver Side

<table>
<thead>
<tr>
<th>Receiver Vacuum Port Module</th>
<th>Model Number</th>
<th>P/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGRCB-VPM</td>
<td></td>
<td>576</td>
</tr>
</tbody>
</table>

**It includes**
- Vacuum port
- 4 screws 6-32
- 1 brass pipe plug with tapered thread for ½" threaded hole

### Fixture Side

<table>
<thead>
<tr>
<th>Fixture Vacuum Port Module</th>
<th>Model Number</th>
<th>P/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGFCB-VPM</td>
<td></td>
<td>B10056-1</td>
</tr>
</tbody>
</table>

**It includes**
- Vacuum port

### Insertion tools

- Installation tool for fixture contacts in VGFCB-9C: P/No A32492
- Combo insertion tool for floating blocks: P/No B32503

### Extraction tools

- Receiver Coax/Power extraction tool VGRXT: P/No 412601
- Fixture Coax/Power extraction tool VGFXT: P/No 412602
- Receiver/Fixture Mini Coax/Power extraction tool VGMXT: P/No 412615

### Torque Wrench

- SMA connector torque wrench for VGR/FCB-9C: P/N A31887

Specifications subject to change without notice