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Visit also WWW.ROMEX.NL/TEST



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MASS INTERCONNECT PRODUCTS

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.







Mini 4 Block Desktop Receiver



Model Number: VGR4

P/No: 122

To be used for small benchtop 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.

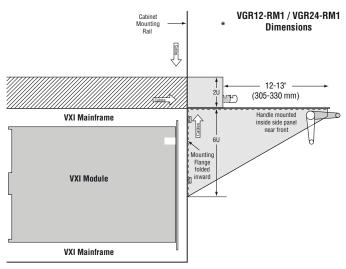
24 Block Double-Row Rack Mount Receiver



Model Number: VGR24-RM1

P/No: 206

Same as above VGR24 but for mounting in a 19" Rack.



* VGR24-RM1 ADDS AN ADDITIONAL 2U TO THE HEIGHT $1\text{U}=1.75^{\circ}$ (1U = 44,5 mm)

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

4-Position up to 18 GHz Block



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 A32433 (50 Ω blind mate plug contact for a SMA connector)

FIXTURE SIDE

4-Position up to 18 GHz Block



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



 $\begin{array}{lll} \mbox{Model Number} & \mbox{VGRCB-9C} \\ \mbox{P/No} & \mbox{1121} \\ \mbox{Impedance} & \mbox{50} \ \Omega \end{array}$

It includes

2 installed alignment pins2 installed floating mounting screws9 holes (without contacts)

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

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

9-Position up to 18 GHz Block



It includes

2 installed bushings

2 screws 4-40

9 holes (without contacts)

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

- for crimp connection: A31898
- for SMA connection: A32434

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

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

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 pins2 installed floating mounting screws13 holes (without contacts)

Contacts must be ordered separately

- Coax contact with 36" coax cable CR-CA50RG174-36 P/No 637
- · Power contact
- CR-610116102

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 bushings2 screws 4-4013 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 VGRCB-15CPF P/No 910 Coax contact up to 500 MHz Power contact up to 30 Amps

It includes

2 installed alignment pins2 installed floating mounting screws15 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 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 VGRCB-22CPF
P/No 527
Coax contact up to 1 GHz
Power contact up to 50 Amps/250 VAC

It includes

2 installed alignment pins2 installed floating mounting screws22 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

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

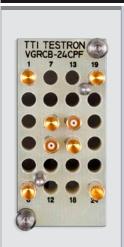
2 installed bushings 2 screws 4-40

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

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

FIXTURE SIDE

24-Position 50 Ω Coax/Power Block



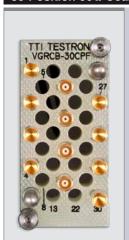
Model Number VGFCB-24CPF P/No 909 Coax contact up to 1 GHz Power contact up to 50 Amps/250 VAC It includes

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 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

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 VGRCB-32CPF P/No 906 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

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

39-Position 50 Ω Coax/Power/Signal Block



Model Number VGRCB-39CPS
P/No 904
Coax contact up to 1 GHz
Power contact up to 50Amps/250VAC
Signal contact up to 10 Amps

It includes: 2 installed alignment pins 2 installed floating mounting screws 39 holes (without contacts): of which 19 are for coax/power contact and 20 for signal contact

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
- Signal contact 610110101

FIXTURE SIDE

39-Position 50 Ω Coax/Power/Signal Block



Model Number VGFCB-39CPS
P/No 905
Coax contact up to 1 GHz
Power contact up to 50Amps/250VAC
Signal contact up to 10 Amps

It includes: 2 installed bushings 2 screws 4-40

39 holes (without contacts): of which 19 are for coax/power contact and 20 for signal contact

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
- Signal contact 610110108

32-Position Power Block



Model Number VGRCB-32P P/No 687 Current rating 25 Amps

It includes

32 installed gold-plated receptacles with aligned solder cups, flush mounted 2 screws 4-40

The high current probes with a spear tip must be ordered separately P/No VGR32P-HCP or HCP-14B

32-Position Power Block



Model Number VGFCB-32P P/No 686 Current rating 25 Amps

It includes

32 installed gold plated solder pot contacts with flat heads .177" (4,5mm) Ø 2 screws 4-40

Replacement contact: A10206

13-Position Pneumatic Lines Block



Model Number VGRCB-13PNEU P/No 902

It includes

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 2 installed guide pins 2 installed floating mounting screws

Replacement parts are

- · receiver air fitting contact A32431
- 0-Ring A34432

13-Position Pneumatic Lines Block



Model Number VGFCB-13PNEU P/No 903

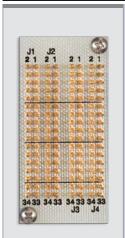
It includes

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 2 installed bushings 2 installed mounting screws 4-40

Replacement parts are

• fixture air fitting contact A32432

136-Position Signal Block



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

Model Numbers

VGRCB-136 P/No 820479 with square 25mil wire wrap receptacles

VGRCB-136F P/No 820415 same as above but floating block

VGRCB-136R P/No 912 with 25mil Ø round pin receptacles

VGRCB-136F-R P/No 820424 Floating block with round pin receptacles

It includes

136 installed receptacles (the square

pins are not aligned)

136 installed spring loaded probes with .160" (4,1mm) full travel $\,$

 ${\bf 2}$ alignment pins in the floating blocks

2 screws 4-40 or 2 floating mounting screws

Replacement parts are

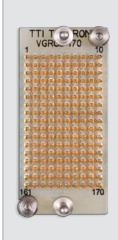
Probes: EPA-2B40

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



Model Numbers

VGRCB-170 P/No B10783-1L with square 25mil wire wrap receptacles

VGRCB-170F P/No 820411 same as above but floating block

VGRCB-170R P/No B10783-R with 25mil Ø round pin receptacles

VGRCB-170F-R P/No 820423 Floating block with round pin receptacles

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

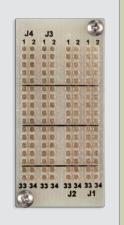
Replacement parts are

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.

Model Numbers

VGFCB-136 P/No 900 with square 25mil wire wrap pins

VGFCB-136F P/No 820417 same as above but for floating block

VGFCB-136R P/No 820494 with 25mil Ø round pins

It includes

136 gold plated contacts with flat heads (the square pins are not 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



Model Numbers

VGFCB-170 P/No B10031-VLD with square 25mil wire wrap pins

VGFCB-170F P/No 820413 same as above but for floating block

VGFCB-170R P/No 660 with 25mil Ø round pins

VGFCB-170F-R P/No 820422 same as above but for floating block

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



FIXTURE SIDE



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



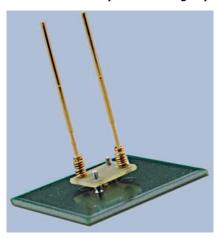


OPENS TESTING PRODUCTS

Since some time already, US companies originally had developed vectorless test techniques for detecting open pins on component packages and connectors:

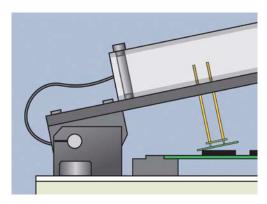
- HP/Agilent with TestJet and VTEP parts
- GenRad with OpensXpress parts (now part of Teradyne Inc.)
- Teradyne with FrameScan Plus and FrameScan FX2.0 parts.

ECT itself developed the Hanger probes:

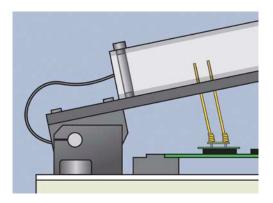


Hanger Probe

Hanger Probes – The compliant motion of the ECT hanger style probes is perfect for use with non level or non parallel applications. By lessening the side forces, there is less opportunity for damage to the sensors under test.

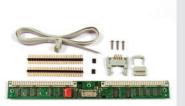


Old style during gate closure. Note stress interference due to non-compliance in the sensor probe combination.



ECT spring loaded hanger style offers compliance during gate closure and operation.

TestJet MUX Card pkg



for up to 64 sonsors P/No: 804352

Agilent P/No E3849A

It includes

- 1 MUX card
- · connectors
- · ribbon cable

Sensor Plate .475" x .375" x .050" thick



12,0 x 9,5 x 1,3 mm thick Size SO14, SO16 P/No: 806437

Agilent P/No: E3851A packing unit: 10 pieces

TESTJET MUX + Ref Card pkg



for up to 64 sensors & ConnectCheck

P/NO: 806924 Agilent P/No E3969A Signal Conditioner + Reference Board

It includes

- 1 MUX + Ref card
- · connectors
- · ribbon cable

Sensor Plate .575" x .425" x .050" thick



14,6 x 10,8 x 1,3 mm thick

Size SO20 P/No: 806438 Agilent P/No: E3852A packing unit: 10 pieces

TestJet Probe pkg



for mounting in bottom side probe field

P/No: 804353 Agilent P/Nos: E3850A / E3960A

It includes

- 1 amplifier board
- 2 probes LTP-25TJ-4 (Agilent E3963A)

Sensor Plate 1.25" x 1.25" x .050" thick



31,8 x 31,8 x 1,3 mm thick

P/No: 806435 Agilent P/No: E3853A packing unit: 10 pieces

ECT Hanger TestJet pkg



for mounting in bottom and top side probe field

P/No: 804855 alternative for Agilent P/No E3850A/E3960A

It includes

- 1 amplifier board with 2 tapped pins SAP-25W-3 pressed-in
- 2 hanger probes with spiral spring head HTJ-25A

Sensor Plate 2.56" x 2.56" x .050" thick



65 x 65 x 1,3 mm thick

P/No: 806436 Agilent P/No: E3854A packing unit: 1 piece

Sensor Plate .500" x 6.25" x .050" thick



12,7 x 159 x 1,3 mm thick P/No: 806439 Agilent P/No: E3964A Packing unit: 1 piece

Assembled Vertical Polarity Check part



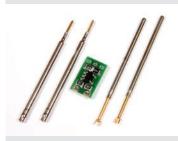
P/No of ECT Munich: SP-0074 P/No of Dover/Hungary: 805283A-BC

It includes

- 2 spring probes 805284
- 1 sensor plate B-C 805285
- soldered to amplifier board 805283

packing unit: 1 piece

Polarity Check vertical Amplifier pkg



P/No: 805283 Agilent P/Nos: E3845A / E3847A

It includes

- · 1 amplifier board
- · 2 probes 805284
- 2 receptacles 805287 packing unit: 1 package

Assembled Vertical Polarity Check part



P/No of ECT Munich: SP-0075 P/No of Dover/Hungary: 805283A-D

It includes

- 2 spring probes 805284
- 1 sensor plate D 805286
- soldered to amplifier board 805283

packing unit: 1 piece

Sensor Plate for Polarity Check



for SMT capacitors size B-C Size .248" x .147" (6,3 x 3,7 mm) P/No: 805285

Agilent P/No: E3891A packing unit: 10 pieces

Replacement spring probe



for amplifier board 804353

P/No: LTP-25TJ-4 Agilent P/No: E3963A Spring force 4 oz (110 cN) at working travel .315" (8,00

mm)

Sensor Plate for Polarity Check



for SMT capacitors Size D

Size: .298" x 191" (7,6 x 4,9

mm)

P/No: 805286 Agilent P/No: E3892A

packing unit: 10 pieces

Short Hanger Probe



P/No: HTJ-25A OAL: 1.25" (31,8 mm) Plunger length: .279" (7,1

mm)

Full Travel: .220" (5,6 mm) Working travel: .167" (4,2

mm)

Spring force: 3.5 oz (100cN)

at working travel

Long Hanger Probe

P/No: SPL-25A-331 OAL: 1.625" (41,3 mm) Plunger length: .654" (26,1

Full travel: .220" (5,6 mm) Working travel: .167" (4,2

Spring force: 3.5 oz (100 cN)

at working travel

Extra Long Hanger Probe



P/No: SPL-25A-332 OAL: 2" (50,8 mm)

Plunger length: 1.029" (26,1

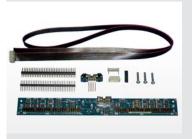
Full travel: .220" (5,6 mm) Working travel: .167" (4,2

mm)

Spring force: 3.5 oz (100 cN)

at working travel

VTEP MUX Card pkg



P/No: 816634 Agilent P/No: N4300A Signal Conditioning MUX Card

It includes

- 1 MUX Card
- connectors
- · ribbon cable

VTEP Sensor Plate 2.5" x 2.5"



63,5 x 63,5 mm P/No: 816773 Agilent P/No: N4303A packing unit: 1 piece

VTEP MUX + Ref Card pkg



P/No: 816635 Agilent P/No: N4307A Connect Check MUX card

It includes

- 1 MUX + Ref Card
- connectors
- · ribbon cable

VTEP Polarity Check Vertical Amplifier pkg



P/No: 816660 Agilent P/No: N4311A / N4312A

It includes

- 1 amplifier board
- 2 probes 805284
- 2 receptacles 805287

VTEP Horizontal Amplifier pkg



P/No: 816636 Agilent P/No: N4301A / N4313A

It includes

- 1 Amplifier board
- 2 probes LTP-25TJ-4 (Agilent P/No E3963A)

Sensor Plate for VTEP Polarity Check



for SMT capacitors size B-C size .248" x .147" (6,3 mm x 3,7 mm) P/No: 805285

Agilent P/No: E3891A packing unit: 10 pieces

VTEP Sensor Plate 1.2" x 1.2"



30,5 x 30,5 mm P/No: 816772 Agilent P/No: N4302A packing unit: 1 piece

Sensor Plate for VTEP Polarity Check



for SMT capacitors size D

size .298" x .191" (7,6 mm x 4,9 mm) P/No: 805286

Agilent P/No: E3892A packing unit: 10 pieces

OFM Card pkg for up to 32 sensors



P/No: 833301 GR P/No: 9004-0482-00

It includes

- 1 OFM card
- · connectors
- · ribbon cable

Sensor Plate 1.25" x 1.25" x .050" thick



31,8 x 31,8 x 1,3 mm thick P/No: 806435 packing unit: 10 pieces

OX Sensor Connection Board pkg



(passive probe plate) P/No: 806448

It includes

- 1 sensor connection board
- 2 hanger probes HTJ-25A

Sensor plate 2.56" x 2.56" x .050" thick



65 x 65 x 1,3 mm thick P/No: 806436 packing unit: 1 piece

Sensor Plate .475" x .375" x .050" thick



12,0 x 9,5 x 1,3 mm thick Size S014, S016 P/No: 806437 packing unit: 10 pieces

Sensor Plate 6.25" x .500" x .050" thick



159 x 12,7 x 1,3 mm thick P/No: 806439 packing unit: 1 piece

Sensor plate .575" x .425" x .050" thick



14,6 x 10,8 x 1,3 mm thick Size SO20 P/No: 806438

packing unit: 10 pieces

Teradyne: FrameScan Plus & FrameScan FX 2.0 Parts

FrameScan FX 2.0 Fixture Kit pkg



for up to 64 sensors

P/No: 825604

Teradyne P/No: 602-946-00

It includes

1 FrameScan FX 2.0 Selector Board (MUX Card)

connectors

ribbon cable

Sensor Plate .475" x .375" x .050" thick



12,0 x 9,5 x 1,3 mm thick Size SO14, SO16 P/No: 806437

Teradyne P/No: 090-360-00

packing unit: 10 pieces

FrameScan Plus MUX Card pkg



for up to 64 sensors

P/No: 805960

It includes

1 FrameScan Plus MUX Card connectors ribbon cable

Will not work with Teradyne Test Station Ultra Pin

Sensor plate .575" x .425" x .050" thick



14,6 x 10,8 x 1,3 mm thick Size S020 P/No: 806438

Teradyne P/No: 090-361-00 packing unit: 10 pieces

ECT Hanger FrameScanPlus Amplifier pkg

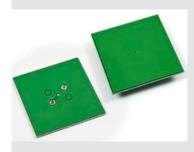


P/No: 804855 Teradyne P/No: 047-531-00 Signal Conditioner + Reference Board

It includes

- 1 amplifier board with 2 tapped pins SAP-25W-3
- 2 hanger probes with spiral spring head HTJ-25A (Teradyne P/No 047-534-00)

Sensor Plate 1.25" x 1.25" x .050" thick

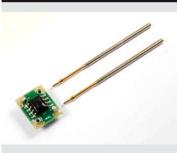


31,8 x 31,8 x 1,3 mm thick

P/No: 806435

Teradyne P/No: 090-363-00 packing unit: 10 pieces

FrameScan FX 2.0 Horizontal Amp pkg



P/No: 825510 Teradyne P/No: 093-284-00

It includes

1 amplifier board

2 probes like LTP-25TJ-4

Sensor plate 2.56" x 2.56" x .050" thick



65 x 65 x 1,3 mm thick P/No: 806436

Teradyne P/No: 090-364-00

packing unit: 1 piece

Teradyne: FrameScan Plus & FrameScan FX 2.0 Parts

Sensor Plate 6.25" x .500" x .050" thick



159 x 12,7 x 1,3 mm thick P/No: 806439

Teradyne P/No: 090-362-00

packing unit: 1 piece

Assembled Vertical Polarity Check part



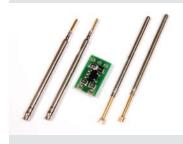
P/No of ECT Munich: SP-0074 P/No of Dover/Hungary: 805283A-BC

It includes

- 2 spring probes 805284
- 1 sensor plate B-C 805285
- soldered to amplifier board 805283

packing unit: 1 piece

CapScan Vertical Amplifier pkg



P/No: 805283

It includes

- · 1 amplifier board
- 2 probes 805284
- 2 receptacles 805287 packing unit: 1 package

Assembled Vertical Polarity Check part



P/No of ECT Munich: SP-0075 P/No of Dover/Hungary: 805283A-D

It includes

- 2 spring probes 805284
- 1 sensor plate D 805286
- soldered to amplifier board 805283

packing unit: 1 piece

Sensor Plate for Polarity Check



for SMT capacitors size B-C

size .248" x .147" (6,3 x 3,7mm) P/No: 805285

packing unit: 10 pieces

Sensor Plate for Polarity Check



for SMT capacitors size D

size: .298" x .191" (7,6 x 4,9 mm)

P/No: 805286

packing unit: 10 pieces





Analog Color Analyser

LED Analog Color Analyser 2 and 8 Channel

LEDCHECK™ II and LEDCHECK™ VIII are a modular assembly designed specifically for color testing light emitting diodes on printed circuit boards under test on automatic test equipment. Each module can accommodate 2 or 8 LED's and modules can easily be cascaded should the need for additional channels arise.

Each channel measures true color of the LED under test, and provides an analog output to the test system proportional to the wavelength of the light detected from the LED. Using digital channel addressing, the channel selection is also under control of the test system.

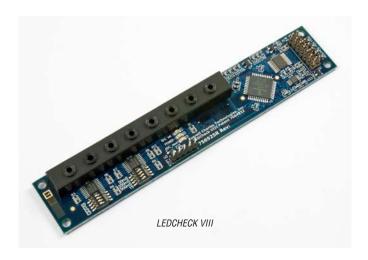
While the color measurement system has good wavelength accuracy designed in, various factors influence the true accuracy of the measurement. The treatment of the fibers, peak versus dominant wavelength of the LED with clear, tinted, or diffused lens and temperature influence the measurement of color. The LEDCHECK color test module is not a spectrometer, but rather an inexpensive multi-channel color-measuring device with excellent repeatability. Once the hardware and measurement are setup, LEDCHECK can be relied upon to perform the color tests within the prescribed criteria.

Applications

- PCB LED Testing
- Automotive Dashboard / Brake Lights / Daytime running lights / Interior
- Switches with LED Backlighting
- · Mobile Applications / Cell Phones / Backlighting
- · Industrial and Medical Instruments
- Signalling
- · Architectural Lighting

Key Features

- . Designed for any Test Platforms due to analog output
- · Tests the full spectrum of visible LED's
- Tests Intensity from very dim to the brightest LED's
- · Unrivalled repeatability for color and intensity readings
- Available with 2 or 8 channels
- Allows up to 128 LED's to test simultaneously with several modules
- Analog Interface with voltage readout
- Ease of Use Instant on
- · Excellent Technical Support
- · Robust and small design



Speci	fica	tions

Mechanical

Board Dimensions (WxLxH) 1.00" x 5.375" x 0.57"

(25,4mm x 136,5mm x 14,5mm)

Mounting Dimensions (WxL Ø) 0.75" x 5.125" Ø 0.128"

(19mm x 130,2mm Ø 3,25mm)

Operating Temperature Range 0°C to +50°C

Electrical

Supply Voltage 5,0 V DC Supply Current < 60 mA

Interface Analog Signal (Voltage)

Optical

Wavelength Range 400 nm to 650 nm Luminous Intensity 1-2000 mcd

Accuracy

Accuracy per Channel ± 3% Accuracy Channel to Channel ± 1%

Partnumber

Analog LEDCHECK II 756927 Analog LEDCHECK VIII 756926



Optical Fiber Cable

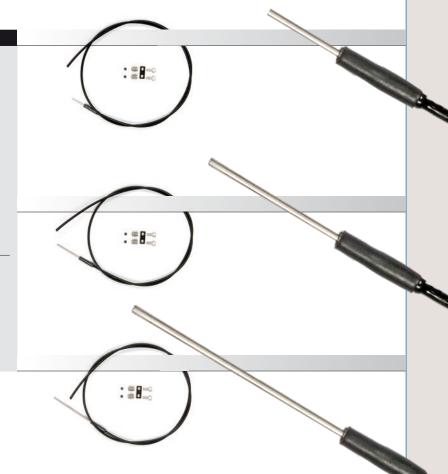
The Optical Fiber Cable includes a fastening kit to support each fiber cable to the adapter. The LEDCHECK Module end of the fiber cable is only being cut in length, making it easy to adjust and attach the fiber cable to the module. The light source end of the cable comes with different length metal tubes (tips) as listed below.

Technicial Details

Fiber Cable Outer Diameter: 0.087" (2,20 mm)
Fiber Cable Length: 27" (680 mm)
Metal Tube Length: 0.75" (19 mm)
Metal Tube Length: 1.25" (31 mm)
Metal Tube Length: 2.00" (50 mm)

Part Numbers

Optical Fiber Cable 0.75" long Tube: 756309
Optical Fiber Cable 1.25" long Tube: 756307
Optical Fiber Cable 2.00" long Tube: 756308



Digital Color Analyser



Digital LEDCHECK 3 or 5 Channel

The ECT Digital Color Analyzer allows fast and automatic testing the Color and Brightness (Intensity) of Light Emitting Devices (LEDs). Tests the full spectrum of visible LEDs from very dim to the brightest on the market.

The new digital color sensor allows unrivalled repeatability for color and intensity testing.

Applications

- PCB LED Testing
- Automotive Dashboard / Brake Lights, Daytime running lights / Interior
- · Switches with LED Backlighting
- . Mobile Applications Cell Phones, Backlighting
- · Industrial and Medical Instruments
- Signalling
- · Architectural Lighting

Key Features

- · Designed for any Test Platforms
- Tests the full spectrum of visible LEDs
- · Tests Intensity from very dim to the brightest LEDs
- · Unrivalled repeatability for color and intensity readings
- · Available with 3 or 5 channels
- . Allows up to 495 LEDs to test simultaneously
- · Ease of Use Instant on
- Excellent Technical Support
- · Free Drivers and Software
- . Designed for Testing Color and White LEDs
- . Tests Bicolor and Tricolor LEDs
- · RS 232 and USB Interface
- · Robust and reliable design
- Uses flexible plastic Optical Fibres for ease of installation

Specifications LEDCHECK with 1mm Fiber

Mechanical

Board Dimensions (WxLxH) 70 x 65 x 35mm
Optical Fiber Length 600 mm
Fiber Outer diameter including cladding
Number of Optical Fibers 3 or 5 pieces
Tightest bend radius of Fiber 15 mm
Operating Temperature Range 0°C to +50°C

Electrical

Supply Voltage 5,0 V Supply Current 80 mA

Interface RS232 (Serial) and

USB

Optical

Red Peak Efficiency Wavelength 615 nm Green Peak Efficiency Wavelength 540 nm Blue Peak Efficiency Wavelength 465 nm

Total Operating Wavelength Range 450 nm to 650 nm

Accuracy

White $x = \pm 0,0015, y = \pm 0,0015$ Red (615pm) . 3 pm

 Red (615nm)
 \pm 3 nm

 Green (540nm)
 \pm 4 nm

 Blue (465nm)
 \pm 3 nm

Partnumber

LEDC-3-1 Digital LEDCHECK III
LEDC-5-1 Digital LEDCHECK V

Specifications LEDCHECK with 2.2mm Fiber

Same as above with the exception that the fiber optic cable diameter is increased to 2,2mm for improved light intensity measurements.

Mechanical

Optical Fiber Length 600 mm

Fiber Outer diameter including cladding 2,20 mm

Number of Optical Fibers 3 or 5 pieces

Tightest bend radius of Fiber 17,6 mm

Partnumber

LEDC-3-2 Digital LEDCHECK III LEDC-5-2 Digital LEDCHECK V



Digital Color Analyser

Optical Head

The Optical Head has been designed to reduce the placement sensitivity of the Optical Fiber when testing LED's.

Optical Head Outer diameter 4,55 mm
Optic capture angle 12 degrees
Optical Fiber Outer diameter 1,00 mm

Part Numbers

Optical Head OH - 1, Length: 36,75 mm

Optical Head OH - 2, Length: 27,00 mm

Optical Head OH - 3, with Fiber Clamp Length: 49,50 mm



Attachment for positioning the thin fiber with 1mm outside diameter

Partnumber

Fiber Clamp for 1,0 mm Optical Fiber CC - 1
Fiber Clamp for 2,2 mm Optical Fiber CC - 2

Optical Fiber Receptacle

75 mil receptacle with pressring

75 mil receptacle for positioning the 1mm Optical fiber

Partnumber

Receptacle LTR-1W

Optical Fiber Knife

Cutting tool for the optical fiber 1,0 mm and 2,2 mm fiber can be shortened with a the fiber knife to the correct length.

In order to guarantee a clean cut of the fiber it is recommended to use each cutting hole only once.

Partnumber

Optical Fiber Knife OFK - 2









Board Marker Probe

Board Marker Probe

The BMP-1 Board Marker Probe patented design is for installation on bare board or loaded board test fixtures. When your tester is equipped with the appropriate electronics and software, the BMP-1 scribes a permanent .050" circle on every "passed" PCB tested. Boards that fail the test are not marked. The risk of human error is eliminated in PCB testing and sorting.

The unit requires less than .500" of fixture area. It is designed to mark board areas of bare glass (FR4), solder mask over glass or copper, or bare tinned copper.

The BMP-1 includes a mounting receptacle with press ring, and a motor/transmission assembly. It can be easily removed from the receptacle for use in other fixtures. Spare receptacles and tip replacement assemblies are available. The thread between receptacle and housing is 7/16-20 UNF.

Consult factory for information on electronic and software requirements, and replacement receptacles and tip assemblies.

Probe Specifications BMP-1

Mechanical Full Marker Tip Travel Recommended Working Travel Direction of Rotation Scribed Diameter	.062 (1.57) .050 (1.27) CCW 0.50 (1.27)
Electrical (Operating Conditions)	
Current Rating	50 mA
Voltage Rating	15 VDC
Recommended Duty Cycle	1 sec. On (min.), 5

Materials	and	Finisha
mutonuo	unu	

Plunger Tip	Carbide
Receptacle	Stainless steel

Mounting Hole Size	.468/.469
	(11.89/11.91)

To Order

sec. Off

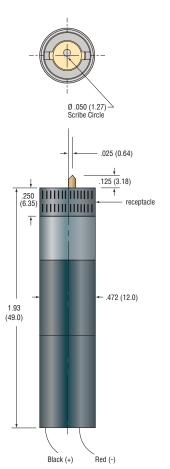
Specify model number of components or tools you require:

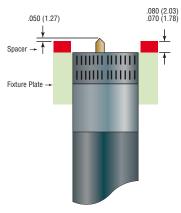
BMP-1: Probe and receptacle, wires and male + female connectors included, (-red, + black).

BMR-1: Receptacle only.

BMT-1: Tip replacement assembly for BMT-1. **RIT-BMP:** Receptacle insertion tool for BMR-1. **EXT-BMP:** Receptacle extraction tool for BMR-1.





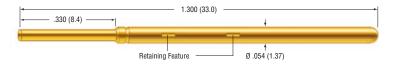


Warning: Adequate thickness spacers MUST be used to limit board travel as shown. Failure to use proper spacers will allow probe to bottom out, stalling the motor and permanently damaging the marker probe.



Personality Pins

- P/No: PP-3070-S
- Agilent P/No: Mint Pins 44275P
- · Packing unit: 200 pieces



POGO-25IP-C



Indicator Probe

This probe is a special use probe to check the probe stroke of a test fixture. Barrel deformations are located in the front of the assembly to hold the plunger after activation at it's compressed positions. Subsequently the stroke of the test fixture can be measured. Thenafter, the plunger can be pulled back with tweezers to the extended position.

- P/No: POGO-25IP-C
- Typ. life expectation: 50 cycles
- To be used in size 25 receptacles like SPR-25W-x
- · Packing unit: 10 pieces

Other dimensions 75 mil or 50 mil upon request.

HDMI Connector

Test Connectors

Test Connectors are typical used for Final or Functional Test, whereas the Test Connector is pneumatical driven into the test objects connector.

The Test Connectors are free floating or can be used with a self guiding block to pre-align the connector before engaging the test object.

All Test Connectors are designed and made with High Perfomance Plastic to assure high lifecycles of typical up to 100.000 insertions.

ECT offers a variety other connector types, pincounts or custom cable length for:

- TAE
- Power DC (2.1mm Ø)
- LVDS
- RTX
- · Various others...

Note

These "Made in Germany" Connectors are sold worldwide by ECT-Munich only.

HDMI Connector

Model Number: HDMI Connector
Connectors: 19 Pins Gold Plated
Housing Material: High Performance Plastic

Voltage Rating: max. 40V

Wiring: none / upon request Part Number: 15.52.59.00.0



4-Pin Mini Western Connector (900mm cable)

Model Number: 4-Pin Western Connector Connectors: 4 Pins Gold Plated Housing Material: High Performance Plastic

Voltage Rating: max. 230V

Wiring: 900mm Color Coded Ribbon Cable

Part Number: 10.41.67.00.0

6-Pin Mini Western Connector (900mm cable)

Model Number: 6-Pin Western Connector Connectors: 6 Pins Gold Plated Housing Material: High Performance Plastic

Voltage Rating: max. 230V

Wiring: 900mm Color Coded Ribbon Cable

Part Number: 10.41.68.00.0

8-Pin Mini Western Connector (900mm cable)

Model Number: 8-Pin Western Connector Connectors: 8 Pins Gold Plated Housing Material: High Performance Plastic

Voltage Rating: max. 230V

Wiring: 900mm Color Coded Ribbon Cable

Part Number: 10.41.69.00.0

8-Pin Mini Western Connector (250mm cable)

Model Number: 8-Pin Western Connector Connectors: 8 Pins Gold Plated Housing Material: High Performance Plastic

Voltage Rating: max. 230V

Wiring: 250mm Color Coded Ribbon Cable

Part Number: 10.41.70.00.0

10-Pin Mini Western Connector (300mm cable)

Model Number: 10-Pin Western Connector Connectors: 10 Pins Gold Plated Housing Material: High Performance Plastic

Voltage Rating: max. 230V

Wiring: 300mm Color Coded Ribbon Cable

Part Number: 10.41.57.00.0











USB Connectors

4-Pin USB Connector Type A

Model Number: 4-Pin USB Connector Type A

Connectors: 4 Pins Gold Plated
Housing Material: High Performance Plastic
Electrical Rating: max. 40V / max. 2.5A
Wiring: none / upon request
Part Number: 10.14.40.00.0



4-Pin USB Connector Type B

Model Number: 4-Pin USB Connector Type B

Connectors: 4 Pins Gold Plated
Housing Material: High Performance Plastic

Voltage Rating: max. 40V

Wiring: none / upon request Part Number: 10.14.46.00.0



5-Pin USB Mini Connector

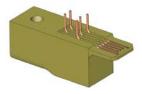
Model Number: 5-Pin USB Mini Connector

Connectors: 5 Pins Gold Plated

Housing Material: High Performance Plastic

Voltage Rating: max. 40V

Wiring: none / upon request Part Number: 10.14.66.00.0



5-Pin USB Mini Connector with Guiding Feature

Model Number: 5-Pin USB Mini Connector Guiding

Connectors: 5 Pins Gold Plated
Housing Material: High Performance Plastic

Voltage Rating: max. 40V

Wiring: none / upon request
Part Number: 10.14.67.00.0



5-Pin USB Micro Connector

Model Number: 5-Pin USB Micro Connector

Connectors: 5 Pins Gold Plated
Housing Material: High Performance Plastic

Voltage Rating: max. 40V

Wiring: none / upon request Part Number: 10.14.57.00.0





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- Spring loaded probes
- Fixtures for ICT- & Functional tests
- ▶ Test interface boards
- Contactors for semiconductor integrated circuits
- Test handlers
- Bareboard test equipment

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