



VGRCB-13C

VGFCB-13C

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The VGRCB-13C provides 13 contacts for signals up to 3.7 Ghz. The center conductor is a replaceable standard .035" probe. The outer shell is spring loaded. All cable connections to the VGR/VGFCB-13C blocks are snap-on SMB. Two precision alignment pins per block ensure proper alignment. Two shoulder mounting screws per VGR block allow the block to float in the receiver. Blocks are sold fully configured. Cables sold separately.

Coax Contact Pair Specifications

Voltage	250VAC
Current	5 Amps continuous
Contact Resistance	39mΩ
Impedance	50Ω
Capacitance	8.8pf
Inductance	42mH
Bandwidth (-3db roll off)	3.7 Ghz (-3db)
Durability	25,000 cycles
Center Conductor	Replaceable Spring Probe
Coax Connection Type	SMB

For Reference Only

Cable Type	Impedance	Max Freq. (Ghz)	Atten@Max. Freq. -dB/100ft
RG174	50	1	57
RG316	50	3	55
LMR200	50	4	22
405 Semi-Rigid	50	10	45

Application Notes

When designing solutions using the VGR/VGFCB-13C blocks, keep in mind the "system" losses of the solution you are attempting to achieve. The RF "receiver to fixture" interface is a contact set designed by TTI Testron. The bandpass of the contacts less cabling of the VGR/VGFCB-13C solution is 3.7Ghz.

The "cable to VGR" contact and "cable to VGF" contact are 50Ω SMB contacts, which are typically rated for a 5 Ghz bandwidth. The standard cable used with the SMB contact above is RF-174, which has a high loss rate at frequencies above 1 Ghz. Typical loss at 1 Ghz is approximately 0.34dB per foot. Hence, the conservative specifications apply with standard cabling.

Using semi-rigid coax for the VGRCB-13C requires the use of a SMB plug to OSM (SMA) jack adapter. Manufactured by M/ACom (AMP). Use part number 5182-2240-00.

Ordering Information

Receiver

Receiver Module	VGRCB-13C
36" SMB Receiver Cable Assy	CRF-CA50RG174/SMB-36

Accessories

SMB Coax Extraction Tool	VGCXT
Center Conductor Extraction Tool (shown)	VGR13XT
Replacement Center Conductor (6)	VGR-CC50-13C

Fixture

Fixture Module	VGFCB-13C
36" SMB Fixture Cable Assy	CRF-CA50RG174/SMB-36

SMB Coax Extraction Tool	VGCXT
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