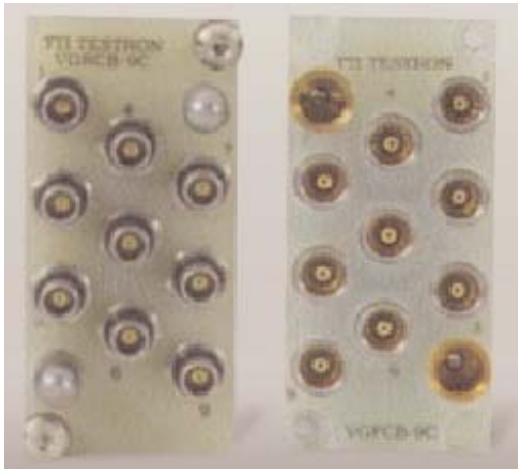
VG Series Products

Mass Interconnect Technologies



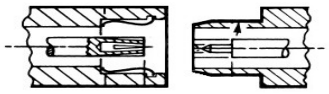
VGRCB-9C VGFCB-9C

VGRCB-9C
VGFCB-9C

The VGRCB-9C provides 9 coaxial contacts for signals up to 18 Ghz. All fixture cable connections to the VGFCB-9C blocks are made through SMA cable contacts providing for a variety of available coaxial cables. *VGRCB-9C contacts are crimp or SMA with some resultant specification changes*. Two precision alignment pins per block ensure proper alignment. Two shoulder mounting screws per VGRCB-9C block allow the block to 'float' in the receiver. Blocks, contacts and cables are sold separately. *Specify Crimp or SMA on Receiver Contacts.*

Contact Pair Specifications

Voltage Rating (dielectric breakdown) ..... 335 VDC
Contact Resistance [Crimp] ..... 2.0 mΩ
Contact Resistance (SMA 4.0mΩ
Insulation Resistance (MΩ Min.) 5000
RF Leakage (dB Min.) [Crimp] ..... -(60-F(Ghz))
RF Leakage (dB Min.) [SMA] ..... -(60-F(Ghz))
Corona 70,000 ft (VRMS Min) [Crimp] 190
Corona 70,000 ft (VRMS Min) [SMA] 250
Impedance 50Ω
Frequency Range ..... DC to 18 Ghz
VSWR [Crimp] ..... 1.15 + .01F(Ghz)
VSWR [SMA] ..... 1.05 + .005F(Ghz)
Insertion Loss [Crimp] ..... 0.03√(f(Ghz))
Insertion Loss [SMA] ..... 0.06√(f(Ghz))
Durability ..... 5,000 cycles
Receiver Contact Connection ..... Crimp, SMA
Fixture Contact Connection ..... SMA



Fixture Jack Receiver

Application Notes

Both the receiver and ITA adapters accept RG-142/U, 50Ω coax cable or miniature coax cable. The mated adapters have a frequency range from DC to 18 Ghz. When designing solutions using the VGR(F)CB-9 blocks, keep in mind the 'system losses' of the desired solution. The insertion loss of the contacts without cabling of the VGR(F)CB-9 are approximately 0.03(f(Ghz)). General-purpose RG-142B/U coax offers economical solutions from DC to 10 Ghz (with 0.49 dB/ft loss at 10 Ghz). The following table is for reference only.

Attenuation @ Max Frequency -dB/100ft				
Cable Type	**2Ghz**	**4Ghz**	**18Ghz**	**26Ghz**
LMR200	15.0	21.6	49.0	60.3
RG142	18.9	28.1	71.0	90.4
LMR100A	35.2	51.8	126.5	159.6
RG174	39.5	57.3	133.5	165.9
TFlex405	30.6	44.6	106.1	165.9

Ordering Information

Receiver

Receiver Module VGRCB-9C
CRIMP
50Ω blind mate plug contact A31897
SMA
50Ω blind mate plug contact A35764

Fixture

Fixture Module VGFCB-9C

50Ω blind mate jack contact A32434
Fixture contact connection type ..... SMA

Cable Assemblies

Receiver coax contact cable assembly (Crimp)
50Ω RG-142/U CR-CA50RG142-36

Fixture SMA cable - Unterminated at Opposite End:
50Ω RG-142B/U CRF-CA50RG142B/U-36
50Ω LMR200 ..... CRF-CA50LMR200-36
50Ω LMR400 ..... CRF-CA50LMR400-36
50Ω Tflex405 ..... CRF-CA50TFLEX405/SMA-36

Accessories

Installation Tool for ITA contact A32492

SMA Connector Torque Wrench A31887

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