

# Picoprobe®

BY GGB INDUSTRIES INC.

Probe Serial #: 94541

Part #: 67A-GSG-100-D-200-N

Uncalibrated Performance

Top Graph: Return Loss into a 50 ohm load

Calibration Coefficients Using  
Cal Substrate: CS-5

OPEN (on open pad)

$C_0 = 6.5$  fF or

Offset Length = 98  $\mu$ m or

Offset Delay = 0.327 ps

SHORT (on short bar)

$L_0 = 5.0$  pH or

Offset Length = 30  $\mu$ m or

Offset Delay = 0.100 ps or

[Offset  $Z_0 = 500$  ohm with  
Offset Delay = 0.01 ps]

LOAD (on 50 ohm load pad)

3.1 fF or

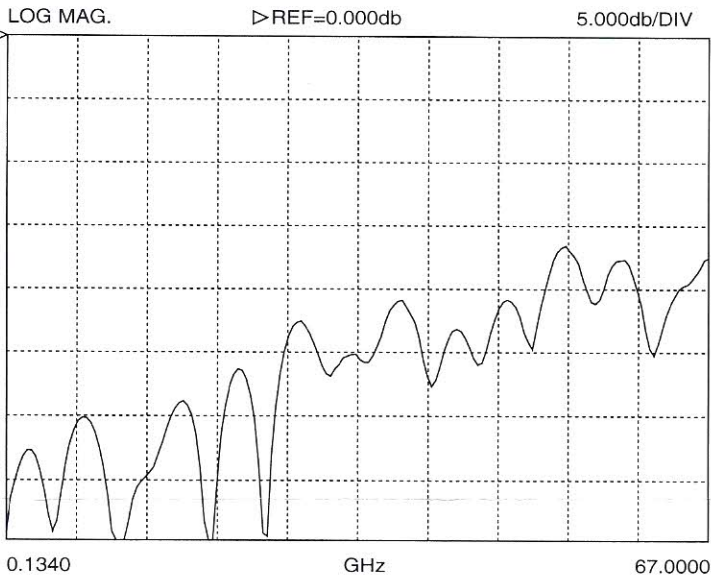
-7.8 pH or

[Offset  $Z_0 = 5$  ohm with  
Offset Delay = .015 ps]

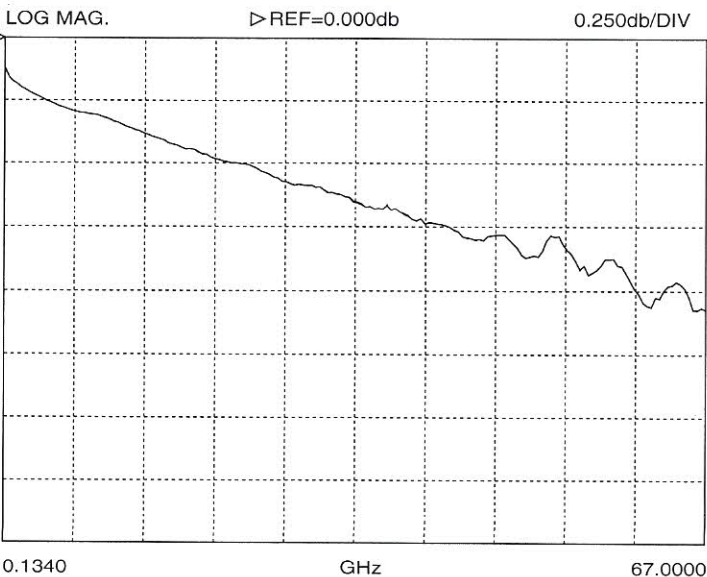
Bottom Graph: Insertion Loss

Maximum insertion loss for  
this probe is -1.07 db

S11 FORWARD REFLECTION



S21 FORWARD TRANSMISSION



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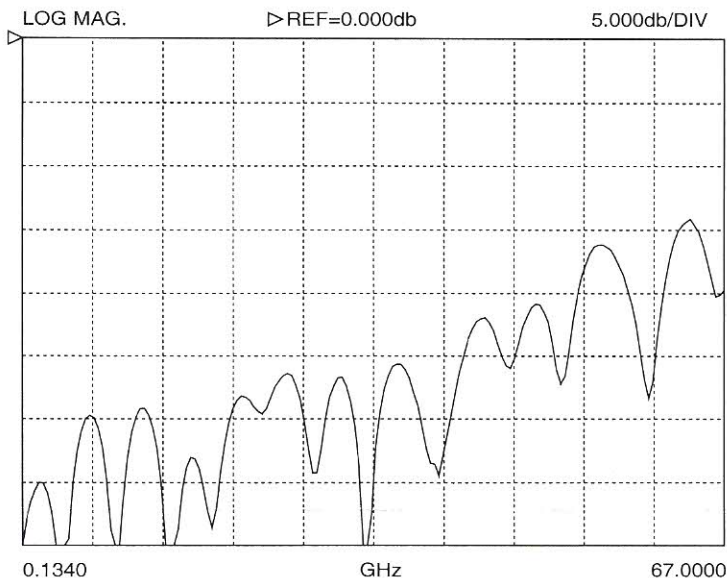
Probe Serial #: 94542

Part #: 67A-GSG-100-D-200-N

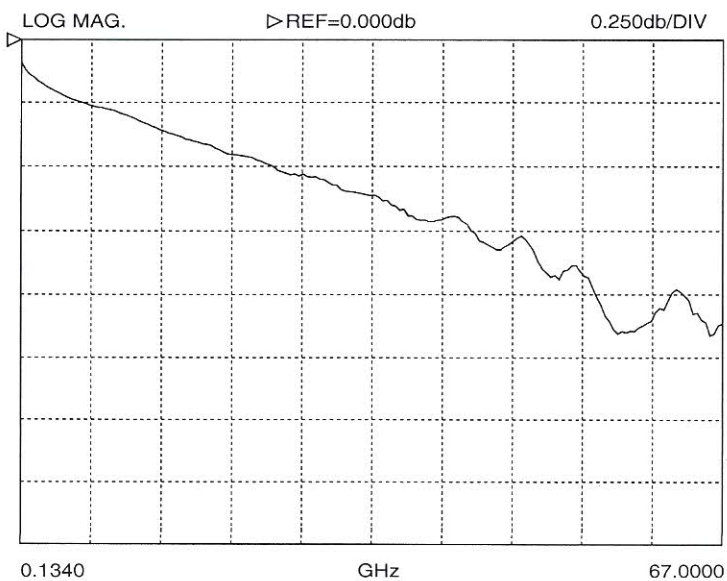
Uncalibrated Performance

Top Graph: Return Loss into a 50 ohm load

S11 FORWARD REFLECTION



S21 FORWARD TRANSMISSION



### Calibration Coefficients Using Cal Substrate: CS-5

#### OPEN (on open pad)

$C_0 = 6.5$  fF or  
Offset Length = 98  $\mu$ m or  
Offset Delay = 0.327 ps

#### SHORT (on short bar)

$L_0 = 5.0$  pH or  
Offset Length = 30  $\mu$ m or  
Offset Delay = 0.100 ps or  
[Offset  $Z_0 = 500$  ohm with  
Offset Delay = 0.01 ps]

#### LOAD (on 50 ohm load pad)

3.1 fF or  
-7.8 pH or  
[Offset  $Z_0 = 5$  ohm with  
Offset Delay = .015 ps]

Bottom Graph: Insertion Loss

Maximum insertion loss for this probe is -1.16 db