

# Picoprobe<sup>®</sup>

BY GGB INDUSTRIES INC.

Probe Serial #: 1LE91

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

Uncalibrated Performance

Top Graph: Return Loss into a 50 ohm load

Calibration Coefficients Using  
Cal Substrate: CS-5

— OPEN (on open pad) —

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

— SHORT (on short bar) —

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

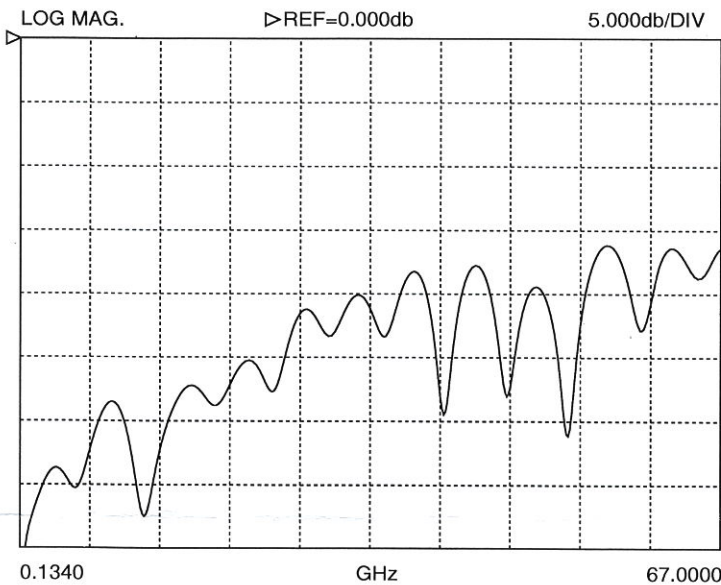
— LOAD (on 50 ohm load pad) —

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

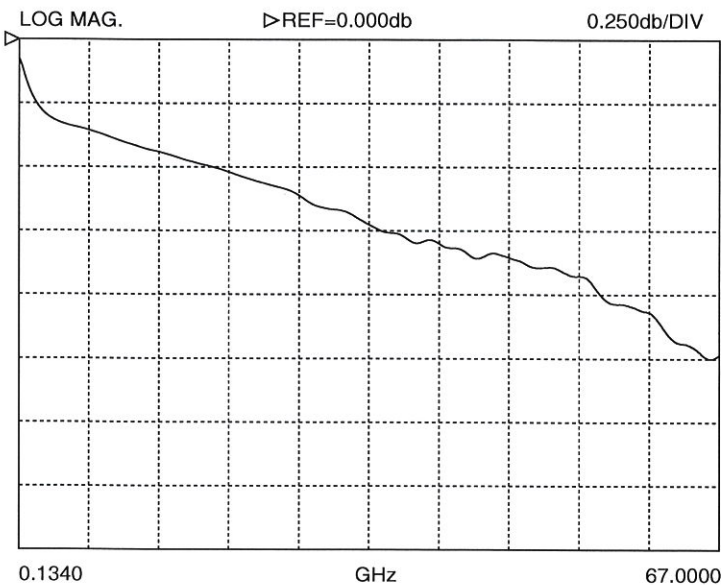
Bottom Graph: Insertion Loss

Maximum insertion loss for  
this probe is  $-1.25 \text{ db}$

S11 FORWARD REFLECTION



S21 FORWARD TRANSMISSION



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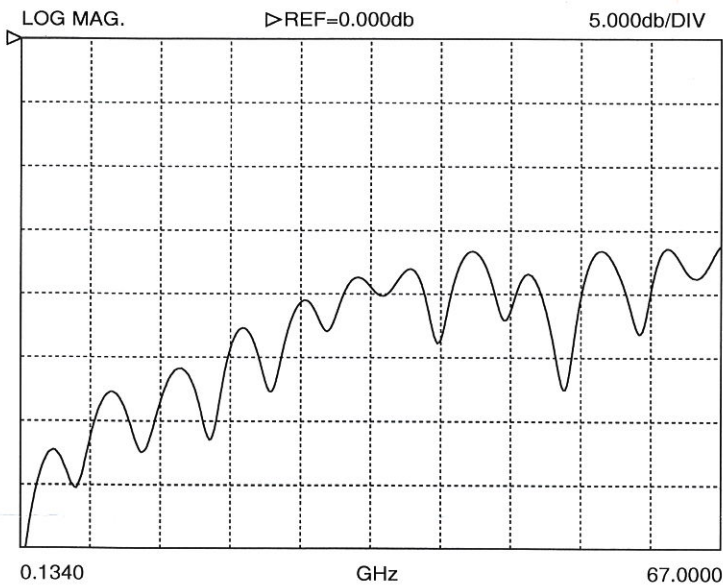
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$3.1 \text{ fF}$  or  
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Bottom Graph: Insertion Loss

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