

Picoprobe®

BY GGB INDUSTRIES INC.

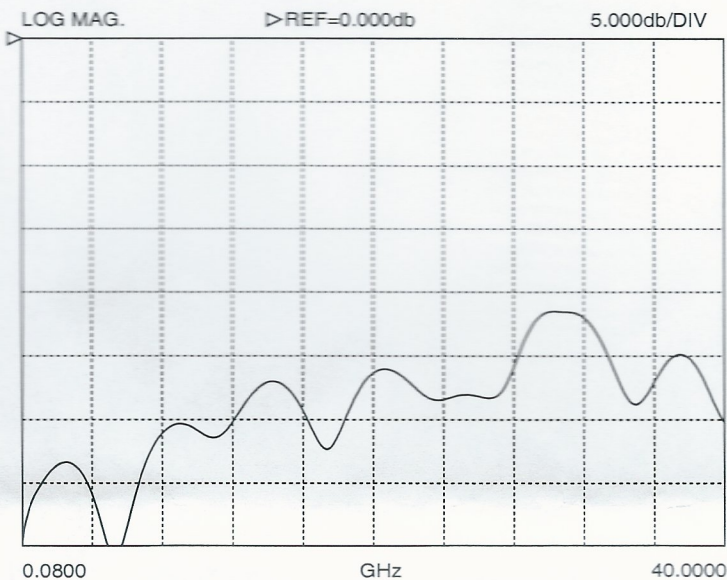
Probe Serial #: 115036

Part #: 40A-GSG-100-D-200-N

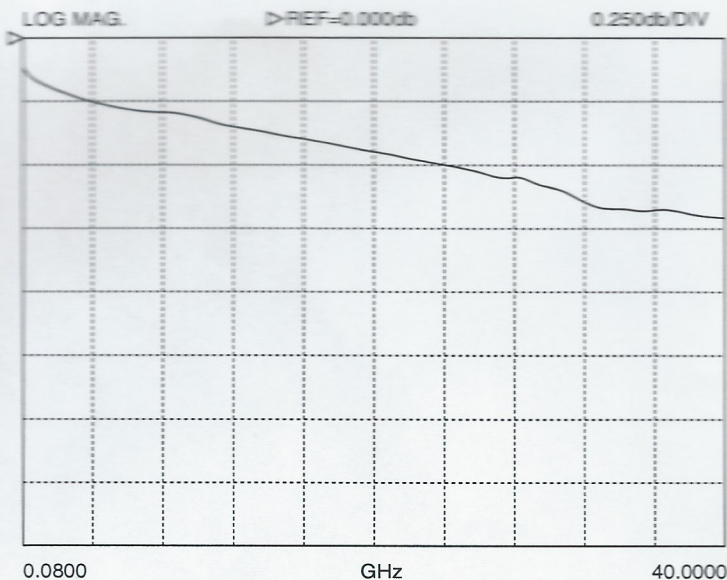
Uncalibrated Performance

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 μ m or
Offset Delay = 0.327 ps

SHORT (on short bar)

$L_0 = 5.0$ pH or
Offset Length = 30 μ 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 -0.71 db

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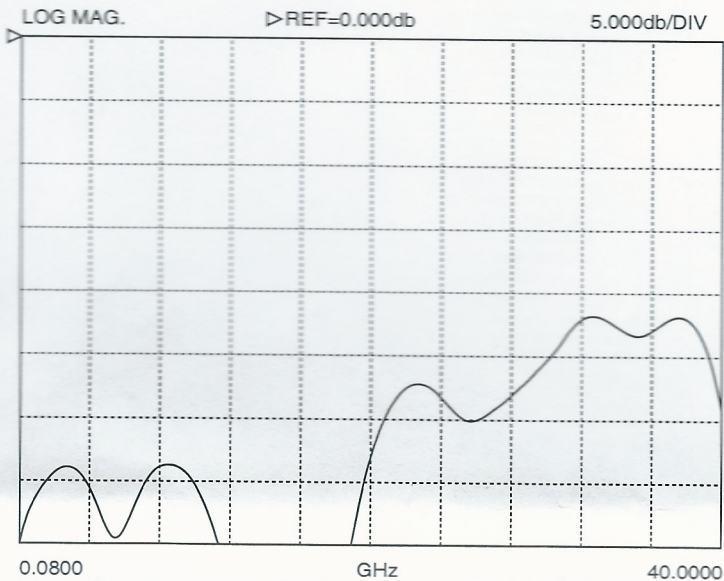
Probe Serial #: 115037

Part #: 40A-GSG-100-D-200-N

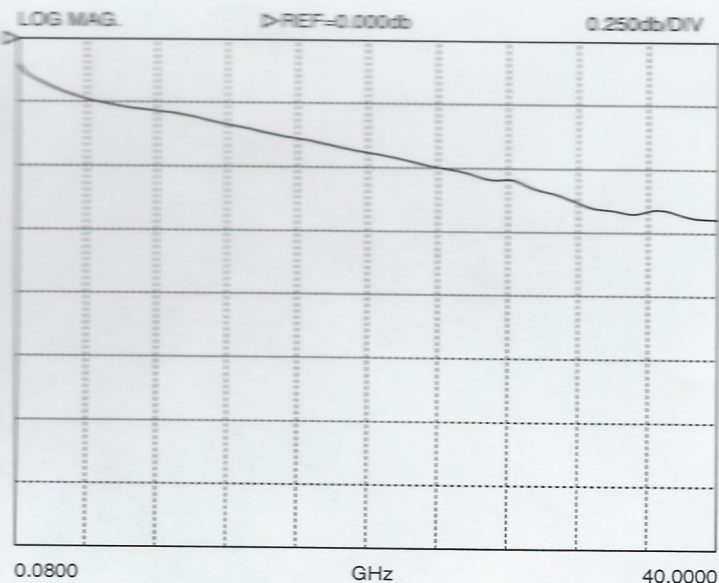
Uncalibrated Performance

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)

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

SHORT (on short bar)

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

LOAD (on 50 ohm load pad)

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

Bottom Graph: Insertion Loss

Maximum insertion loss for
this probe is -0.70 db

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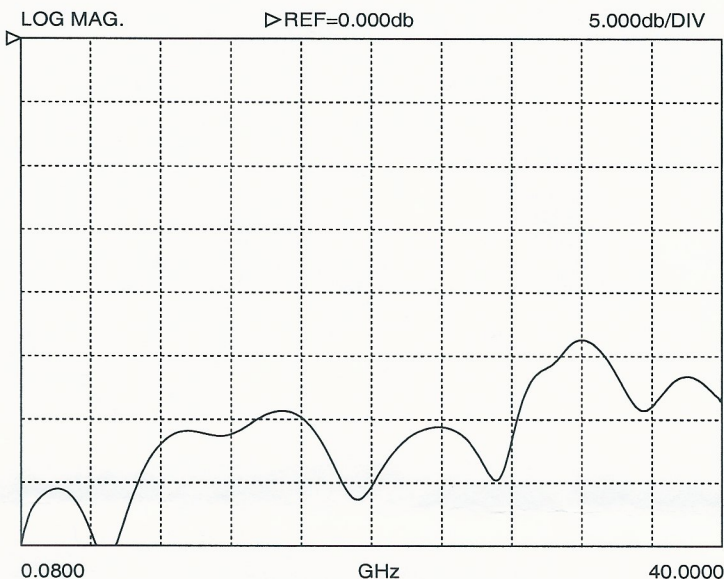
Probe Serial #: 115034

Part #: 40A-GSG-100-D-200-N

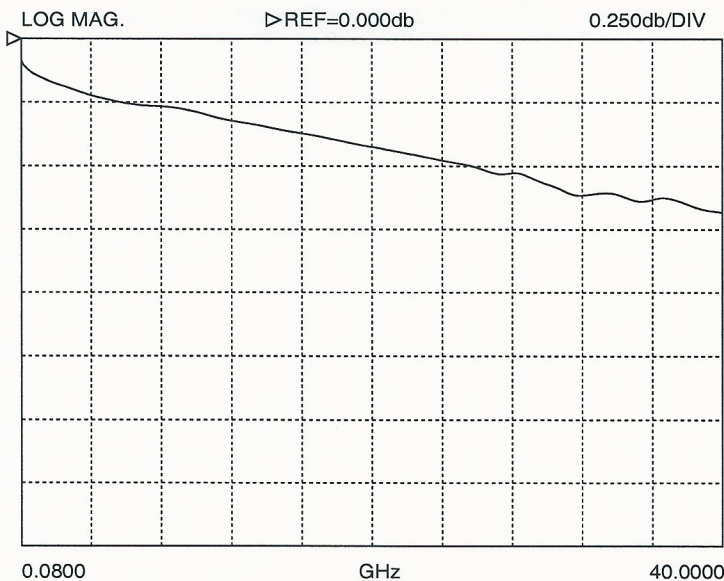
Uncalibrated Performance

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)

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

SHORT (on short bar)

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

LOAD (on 50 ohm load pad)

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

Bottom Graph: Insertion Loss

Maximum insertion loss for this probe is -0.68 db

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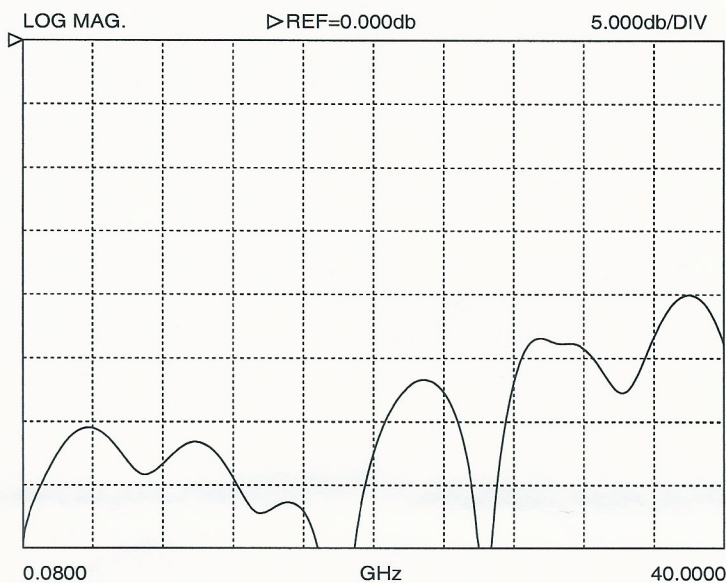
Probe Serial #: 115035

Part #: 40A-GSG-100-D-200-N

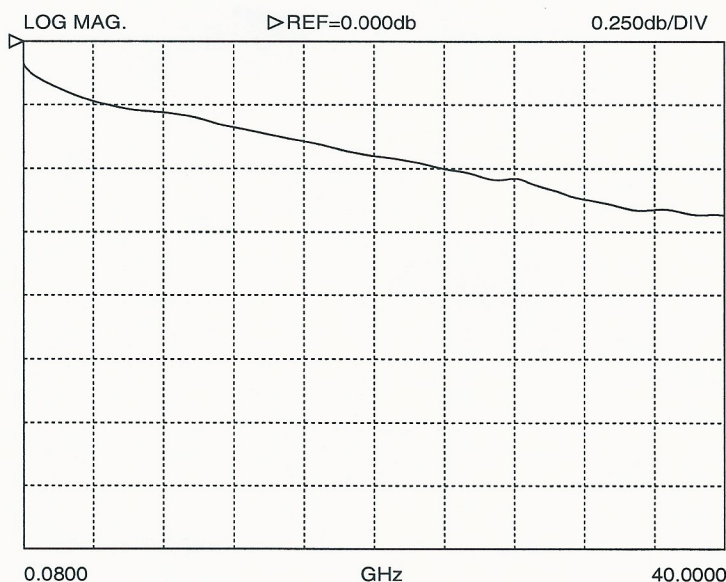
Uncalibrated Performance

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) —

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

— SHORT (on short bar) —

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

— LOAD (on 50 ohm load pad) —

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

Bottom Graph: Insertion Loss

Maximum insertion loss for
this probe is -0.68 db