

PLANAR MONOLITHICS INDUSTRIES  
 7311G-GROVE RD., FREDERICK MD. 21704  
 TEL: 301-631-1579, FAX: 301-662-2029  
 URL: WWW.PLANARMONOLITHICSINDUSTRIES.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

## PHASE SHIFTER TEST DATA

CUSTOMER: \_\_\_\_\_  
 JOB NO: \_\_\_\_\_  
 MODEL NO: PS-90-2550E  
 OPTION NO: HS  
 PWR SUPPLY: +5V @43 mA; -5V @4 mA

TECHNICIAN: H. Hahn  
 DATE: 8-1-05  
 SERIAL NO: PM506154  
 FREQUENCY RANGE: 1.9 - 5.6 GHz

INSERTION LOSS	VSWR	LOGIC	PHASE
1.77 dB	2.00 : 1	"1"	170°
1.95 dB	2.00 : 1	"0"	170°

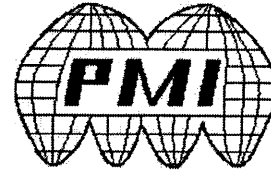
RISE TIME:	2 nS
FALL TIME:	6 nS
DELAY ON:	12 nS
DELAY OFF:	12 nS

NOTE: ANY ADDITION TEST DATA ON BACK

TESTED ON: Agilent N5230A

QA/QC APPROVAL: \_\_\_\_\_ *NWB*

DATED: 8/5/05



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 JOB NO: \_\_\_\_\_  
 MODEL NO: PS-90-2550E  
 OPTION NO: HS  
 PWR SUPPLY: +5V @43 mA; -5V @4 mA

TECHNICIAN: H. Hahn  
 DATE: 8-1-05  
 SERIAL NO: PM506155  
 FREQUENCY RANGE: 1.9 - 5.6 GHz

INSERTION LOSS	VSWR	LOGIC	PHASE
1.58 dB	1.90 : 1	"1"	174°
1.57 dB	1.95 : 1	"0"	174°

RISE TIME:	2 nS
FALL TIME:	6 nS
DELAY ON:	12 nS
DELAY OFF:	12 nS

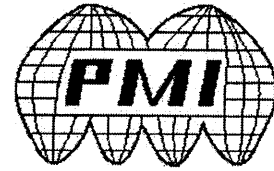
NOTE: ANY ADDITION TEST DATA ON BACK

TESTED ON: Agilent N5230A

QA/QC APPROVAL: \_\_\_\_\_

*Handwritten signature*

DATED: 8/5/05



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## PHASE SHIFTER TEST DATA

CUSTOMER: \_\_\_\_\_  
 JOB NO: \_\_\_\_\_  
 MODEL NO: PS-90-2550E  
 OPTION NO: HS  
 PWR SUPPLY: +5V @43 mA; -5V @4 mA

TECHNICIAN: H. Hahn  
 DATE: 8-1-05  
 SERIAL NO: PM506156  
 FREQUENCY RANGE: 1.9 - 5.6 GHz

INSERTION LOSS	VSWR	LOGIC	PHASE
1.77 dB	1.90 : 1	"1"	172°
1.70 dB	1.95 : 1	"0"	172°

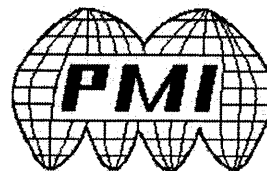
RISE TIME:	2 nS
FALL TIME:	6 nS
DELAY ON:	12 nS
DELAY OFF:	12 nS

NOTE: ANY ADDITION TEST DATA ON BACK

TESTED ON: Agilent N5230A

QA/QC APPROVAL: \_\_\_\_\_ *RWP*

DATED: 8/5/05



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## PHASE SHIFTER TEST DATA

CUSTOMER: \_\_\_\_\_  
 JOB NO: \_\_\_\_\_  
 MODEL NO: PS-90-2550E  
 OPTION NO: HS  
 PWR SUPPLY: +5V @43 mA; -5V @4 mA

TECHNICIAN: H. Hahn <sup>1</sup> <sub>827</sub>  
 DATE: 8-1-05  
 SERIAL NO: PM506157  
 FREQUENCY RANGE: 1.9 - 5.6 GHz

INSERTION LOSS	VSWR	LOGIC	PHASE
1.63 dB	1.95 : 1	"1"	170°
1.54 dB	1.90 : 1	"0"	170°

RISE TIME:	2 nS
FALL TIME:	6 nS
DELAY ON:	12 nS
DELAY OFF:	12 nS

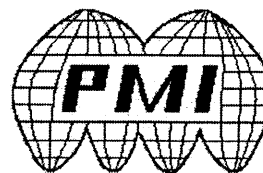
NOTE: ANY ADDITION TEST DATA ON BACK

TESTED ON: Agilent N5230A

QA/QC APPROVAL: \_\_\_\_\_

*Handwritten signature*

DATED: 8/5/05



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## PHASE SHIFTER TEST DATA

CUSTOMER: \_\_\_\_\_  
 JOB NO: \_\_\_\_\_  
 MODEL NO: PS-90-2550E  
 OPTION NO: HS  
 PWR SUPPLY: +5V @36 mA; -5V @4 mA

TECHNICIAN: H. Hahn <sup>F</sup> #27  
 DATE: 11-7-05  
 SERIAL NO: PM506159  
 FREQUENCY RANGE: 1.9 - 5.6 GHz

INSERTION LOSS	VSWR	LOGIC	PHASE
1.32	1.91:1	"1"	180°
1.28	1.78:1	"0"	180°

RISE TIME:	8 nS
FALL TIME:	4 nS
DELAY ON:	18 nS
DELAY OFF:	16 nS

NOTE: ANY ADDITION TEST DATA ON BACK

TESTED ON: Agilent N5230A

QA/QC APPROVAL: \_\_\_\_\_



DATED: 11/7/05