TEST REPORT

ON

40 MHz TO 500 MHz

SINGLE POLE SINGLE THROW

REFLECTIVE PIN DIODE SWITCH

AMC MODEL No:

SW-2184-1

OPTION 40M05, CPI

Serial Numbers: 1MS906190 THRU 1MS906199

DESIGNED
BY
Dr. A. Gorwara

TESTED
BY
H. Hahn

REPORTED
BY
W. Steinhaus

DRH JDT
MDO
EA ESC
MXN

October 7, 2004

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ISO9001 : 1994 CERTIFIED

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T39-EJE-SW-1004

SINGLE POLE SINGLE THROW REFLECTIVE PIN DIODE SWITCH AMC MODEL No: SW-2184-1 OPTIONS 40M05, CPI

FEATURES:

- **40 TO 500 MHz FREQUENCY RANGE**
- **2.5 dB LOW INSERTION LOSS**
- **60 dB HIGH ISOLATION**

SPECIFICATIONS:

FREQUENCY	:	40 TO 500 MHz
INSERTION LOSS	:	2.5 dB MAXIMUM
ISOLATION	:	60 dB MINIMUM
VSWR	:	1.4:1
SPEED	:	RISE: 300 nSEC MAXIMUM FALL: 300 nSEC MAXIMUM
POWER INPUT	:	+20 dBm CW MAXIMUM @ 40 TO 500 MHz
RF CONNECTORS	:	SMA FEMALE
DRIVER CONTROL	:	-5V = "ON" 40 mA FOR BIAS CURRENT = "OFF"
WEIGHT	:	1.5 OUNCES TYPICAL
SIZE	:	0.95" x 0.79" x 0.51"

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PRODUCT FEATURE

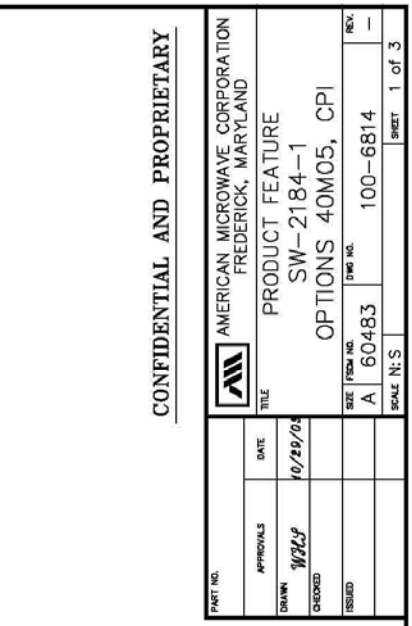
DESCRIPTION:

AMC MODEL NUMBER SW-2184-1 OPTIONS 40M05, CPI IS A SINGLE POLE SINGLE THROW, REFLECTIVE, PIN DIODE SWITCH DESIGNED TO OPERATE FROM 40 MHz TO 500 MHz WITH LOW INSERTION LOSS AND HIGH ISOLATION.

SPECIFICATIONS:

- FREQUENCY: . . . . . 40 MHz TO 500 MHz
- INSERTION LOSS: . . . . . 2.5 dB MAXIMUM
- ISOLATION: . . . . . 60 dB MINIMUM
- VSWR: 1.4:1
- SPEED: . . . . . RISE: 300 nS MAXIMUM
  FALL: 300 nS MAXIMUM
- POWER INPUT: . . . . . +20 dBm CW MAXIMUM @ 40 MHz TO 500 MHz
- RF CONNECTORS: . . . . . SMA FEMALE
- DRIVER CONTROL: . . . . . –5V = "ON"
  40 mA FOR BIAS CURRENT = "OFF"
- WEIGHT: . . . . . 1.5 OUNCES TYPICAL
- SIZE: . . . . . 0.95 X 0.79 X 0.51

BLOCK DIAGRAM

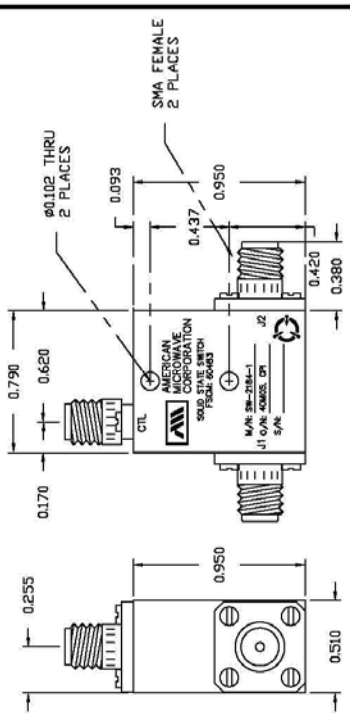


ENVIRONMENTAL RATINGS:

- TEMPERATURE: . . . . . –10°C TO +55°C (OPERATING)
  –40°C TO +71°C (STORAGE)
- HUMIDITY: . . . . . 95% OVER TEMPERATURE
- SHOCK: . . . . . MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: . . . . . MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: . . . . . MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

MECHANICAL OUTLINE



ALL DIMENSIONS ARE IN INCHES
TOLERANCES: X.XX ±0.010
X.XXX ±0.005

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL RELEASE, JOB# 905095E	10/29/03	

CONFIDENTIAL AND PROPRIETARY

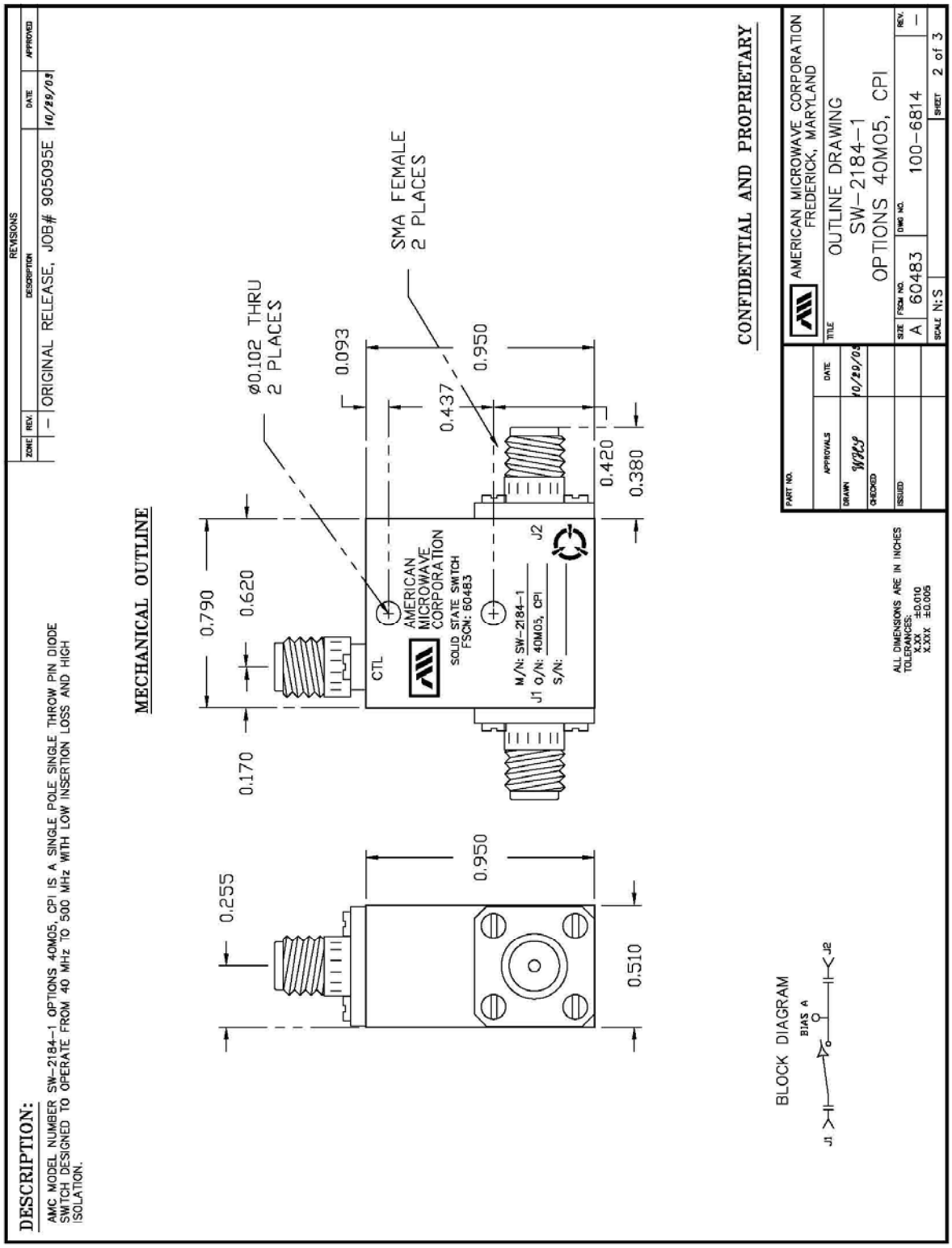
PART NO.	APPROVALS	DATE
DRAWN	WRJ	10/29/03
CHECKED		
ISSUED		

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

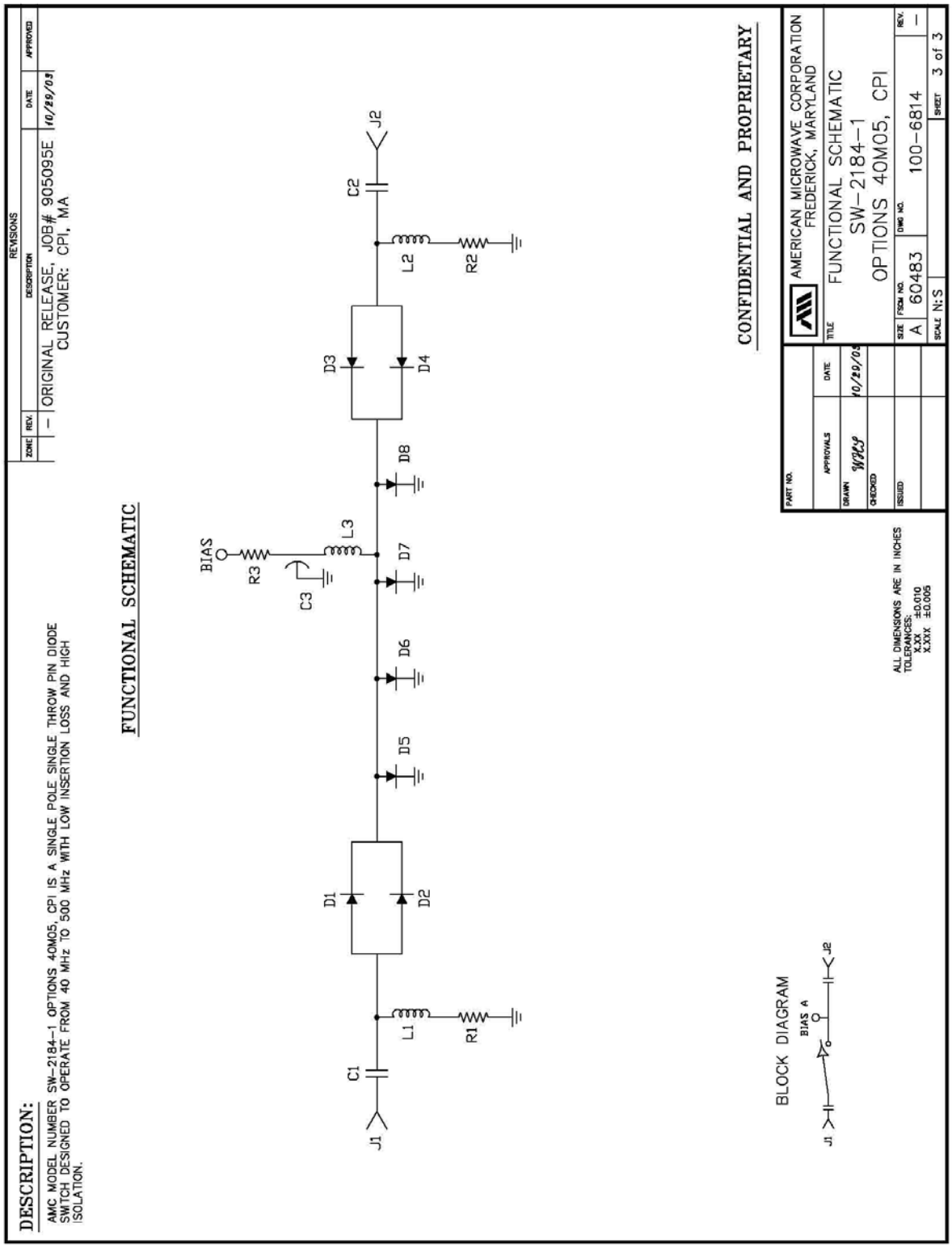
TITLE: PRODUCT FEATURE
SW–2184–1
OPTIONS 40M05, CPI

SIZE A | FSCM NO. 60483 | DWG NO. 100–6814 | REV. –
SCALE N:S | SHEET 1 of 3

OUTLINE DRAWING



FUNCTIONAL SCHEMATIC



FINAL TEST DATA

FINAL TEST DATA SHEETS

FOR

AMC MODEL NUMBER

SW-2184-1
OPTION 40M5, CPI

Serial Numbers:

1MS906190 THRU 1MS906199

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FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906190

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906190

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40 - 500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.21 dB	22.64 dB	1.16 : 1	22.25 dB	1.16 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [illegible]
QA/QC: Q3 [illegible]
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906191

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906191

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40 - 500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.23 dB	22.46 dB	1.16 : 1	20.85 dB	1.20 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: Q3 PS
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906192

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906192

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40 - 500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.48 dB	20.09 dB	1.22 : 1	20.17 dB	1.22 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: 03 [signature]
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906193

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906193

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40-500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.13 dB	24.37 dB	1.13 : 1	23.46 dB	1.14 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: Q3 [signature]
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906194

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906194

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40 - 500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.12 dB	23.50 dB	1.14 : 1	22.73 dB	1.16 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: Q3 [signature]
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906195

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906195

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40-500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.09 dB	23.49 dB	1.14 : 1	22.65 dB	1.16 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: [signature]
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906196

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906196

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40 - 500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.10 dB	23.62 dB	1.14 : 1	22.89 dB	1.15 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: Q3
QA/QC:
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906197

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906197

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40 - 500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.09 dB	23.43 dB	1.14 : 1	22.76 dB	1.16 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: Q3 [signature]
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906198

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906198

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40-500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.15 dB	23.55 dB	1.14 : 1	22.99 dB	1.15 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST:
QA/QC: Q3 PS
DATED: JUN 18 1999

FINAL TEST DATA

AMC MODEL NO: SW-2184-1 OPTIONS 40M05, CPI, SERIAL NUMBER: 1MS906199

FORM: SW-DATA 27/0199

AMERICAN MICROWAVE CORPORATION

DATE: 6-18-99

FINAL TEST DATA
ON
MICROWAVE SWITCH

CUSTOMER: CPI
JOB NO: 905095 E
MODEL NO: SW-2184-1
SERIAL NO: 1MS906199

TECHNICIAN: H. HAHN
OPTION: 40M05, CPI
FREQUENCY RANGE: 40-500 MHz
SPECIFICATIONS: 454

SUPPLY: -5V = "ON", 40 mA BIAS CURRENT "OFF"

MAXIMUM INSERTION LOSS	RETURN LOSS					
	MIN. INPUT dB	INPUT VSWR	MIN. OUTPUT ON dB	OUTPUT ON VSWR	MIN. OUTPUT OFF dB	OUTPUT OFF VSWR
1.11 dB	22.24 dB	1.17 : 1	21.41 dB	1.19 : 1	N/A dB	N/A : 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1
dB	dB	: 1	dB	: 1	dB	: 1

MINIMUM ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
> 60 dB	N/A	< 300 nS	N/A	< 300 nS
dB				
dB				
dB				
dB				
dB				
dB				
dB				

NOTE: Any additional test data on back

TESTED ON: WILTRON 37347A

TEST: [signature]
QA/QC: 03 P.A.
DATED: JUN 18 1999