



TEST REPORT
ON
0.5 to 18 GHz
SINGLE POLE EIGHT THROW
REFLECTIVE / NON-ABSORPTIVE PIN DIODE SWITCH

AMC MODEL No:
MSN-8DR-06-STANDARD
OPTION B02

Serial Numbers: 8MS80890 THRU 8MS80898

DESIGNED
BY
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TESTED
BY
R. Butler

REPORTED
BY
E. Elder

August 11, 2004

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ISO9001 : 1994 CERTIFIED

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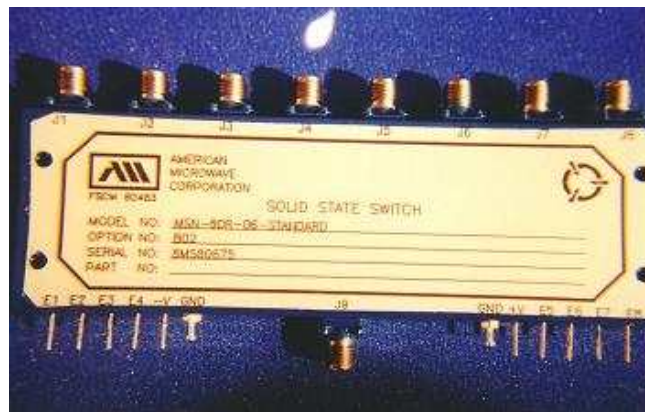
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SINGLE POLE EIGHT THROW PIN DIODE SWITCH AMC MODEL No: MSN-8DR-06-STANDARD OPTION B02

FEATURES:

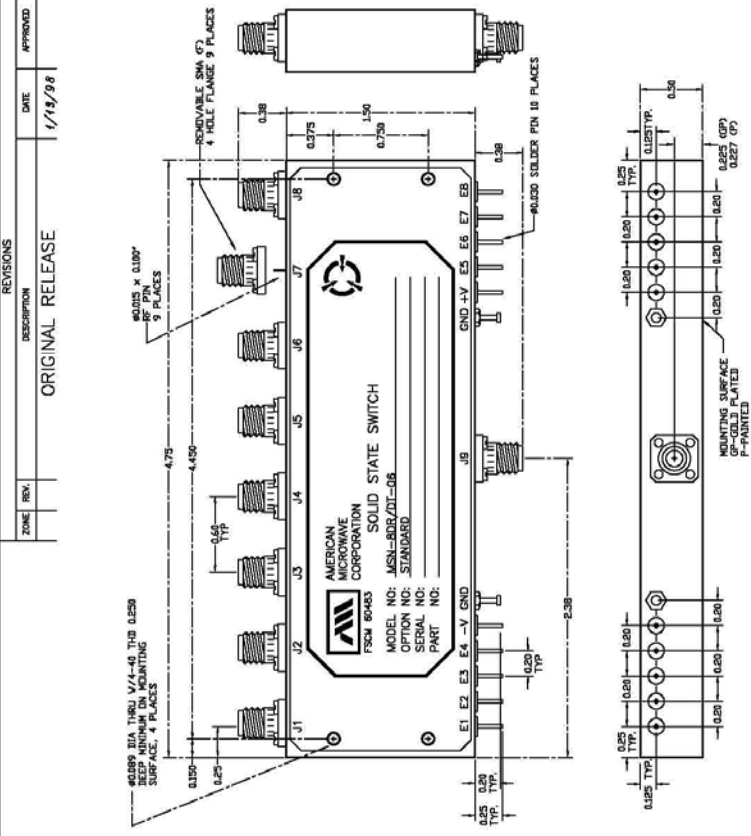
- **70 dB ISOLATION**
- **0.5 to 18 GHz FREQUENCY RANGE**
- **75 nS ON/OFF HIGH SPEED**
- **ABSORPTIVE**



SPECIFICATIONS:

- | | |
|------------------|---|
| ● FREQUENCY | : 0.5 TO 18 GHz |
| ● INSERTION LOSS | : 4.0 dB |
| ● ISOLATION | : 0.5 TO 2 GHz: 60 dB
: 2 TO 18 GHz: 70 dB |
| ● VSWR | : 2.0:1 |
| ● SPEED | : RISE: 10 nS TYPICAL, 15 nS MAXIMUM
: FALL: 10 nS TYPICAL, 15 nS MAXIMUM
: DELAY ON: 75 nS TYPICAL, 100 nS MAXIMUM
: DELAY OFF: 75 nS TYPICAL, 100 nS MAXIMUM |
| ● POWER INPUT | : (CW)+20dBm (STANDARD), +10dBm (HIGH SPEED) |
| ● SURVIVAL POWER | : 1 WATT CW, 10 WATTS PEAK 1 uSEC |
| ● CONTROL | : TTL LOGIC "0"=ON "1"=OFF |
| ● POWER SUPPLY | : +5V @ 400 mA MAXIMUM
: -15V @ 75 mA MAXIMUM |

PRODUCT FEATURE

ZONE REV. APPROVED ORIGINAL RELEASE DATE 1/14/98	 <p style="text-align: center;"> AMERICAN MICROWAVE CORPORATION SOLID STATE SWITCH MODEL NO. MSN-8DR-06 OPTION NO. STANDARD PART NO. </p>	TITLE AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND MSN-8DR/DT-06-STANDARD REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH SIZE FROM NO. A 60483 DWG NO. 100-4295-1 SHEET 1 of 1
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REVISIONS
 1/14/98 ORIGINAL RELEASE

NOTE:
 DR=WITH DRIVER, REFLECTIVE
 DT=WITH DRIVER, NON-REFLECTIVE/ABSORPTIVE

ENVIRONMENTAL RATINGS:
 TEMPERATURE: -55°C TO +85°C (OPERATING)
 -55°C TO +125°C (STORAGE)
 HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
 SHOCK: MIL-STD-202F, METHOD 213B COND. B
 VIBRATION: MIL-STD-202F, METHOD 2040 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

SPECIFICATIONS:
 FREQUENCY: 0.5 GHz TO 18 GHz
 REFLECTIVE: 4.0db
 ABSORPTIVE: 4.5db
 ISOLATION: 0.5 GHz TO 2 GHz: 60db
 2 GHz TO 18 GHz: 70db
 YSWR: REFLECTIVE IN/OUT: 2.0:1
 ABSORPTIVE IN/OUT: 2.0:1
 SPEED: RISE: 10ns TYPICAL, 15ns MAX.
 FALL: 10ns TYPICAL, 15ns MAX.
 DELAY ON: 75ns TYPICAL, 100ns MAX.
 DELAY OFF: 75ns TYPICAL, 100ns MAX.
 POWER INPUT: (CW)+20dbm (STANDARD), +10 dbm (HIGH SPEED)
 SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK 1 usec
 CONTROL: TTL LOGIC "0"=ON "1"=OFF
 POWER SUPPLY: +5V @ 400 mA MAX.
 -5V @ 75mA MAX.(REFLECTIVE)
 100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

OPTIONS:
 INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
 DEC-MP: 3 BIT DECODER WITH MULTIPIN
 DEC-SP: 3 BIT DECODER WITH SOLDER PIN
 MP-IND: INDEPENDENT CONTROL WITH MULTIPIN
 10M18: 10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
 100M18: 100 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 0.5db AT 18 GHz)
 118: 1 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
 218: 2 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
 412: 4 GHz TO 12.4 GHz (NO CHANGE IN INSERTION LOSS)
 618: 6 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
 1218: 12 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
 100M20: 100 MHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 1.0db AT 20 GHz)
 220: 2 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
 1020: 10 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
 B01: -12V POWER SUPPLIES
 B02: -15V POWER SUPPLIES
 B03: REVERSE LOGIC "1"=ON "0"=OFF
 B04: DRIVERLESS, CURRENT CONTROLLED
 B05: HIGH SPEED, TURNON/TURNOFF 25 nsec MAXIMUM WHEN APPLICABLE
 B06: HIGH POWER - SPECIFY CW POWER, PEAK POWER, PULSE WIDTH, DUTY CYCLE, RF FREQUENCY AND BANDWIDTH
 B07: CUSTOM DESIGNED PRODUCT - SPECIFY INITIALS OF CUSTOMER
 B08: LOW VIDEO TRANSIENTS - SPECIFY VIDEO BANDWIDTH
 B09: LOW INSERTION LOSS VERSION
 B10: HIGHER ISOLATION VERSION
 B11: 0.4" THICK VERSION WITH REMOVABLE 2 HOLE FLANGE SMA (F)

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.010

FINAL TEST DATA

FINAL TEST DATA SHEETS

FOR

AMC MODEL NUMBER

**MSN-8DR-06-STANDARD
OPTION B02**

Serial Numbers:

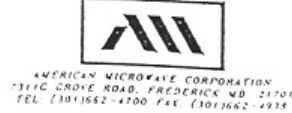
8MS80890 THRU 8MS80898



FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80890

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80890
 CUSTOMER: AERDF/EX LINTEK TECHNICIAN: Randy Butler
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+5VDC I = 450 mA
 -5VDC I = 55 mA

INSERTION LOSS	RETURN LOSS					
	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.69 dB	10.42 dB	1.86:1	14.28 dB	1.49:1		
J9-J2 3.41 dB	11.57 dB	1.71:1	10.83 dB	1.80:1		
J9-J3 3.14 dB	11.51 dB	1.72:1	11.72 dB	1.70:1		
J9-J4 2.78 dB	14.21 dB	1.49:1	12.28 dB	1.64:1		
J9-J5 2.88 dB	12.64 dB	1.60:1	11.14 dB	1.76:1		
J9-J6 2.72 dB	13.82 dB	1.51:1	14.02 dB	1.49:1		
J9-J7 3.28 dB	14.33 dB	1.47:1	13.80 dB	1.51:1		
J9-J8 3.55 dB	12.01 dB	1.66:1	15.80 dB	1.38:1		

ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	42 NS	12 NS	38 NS	4 NS
J9-J2 >70dB	42 NS	12 NS	42 NS	4 NS
J9-J3 >70dB	48 NS	8 NS	38 NS	6 NS
J9-J4 >70dB	54 NS	8 NS	39 NS	4 NS
J9-J5 >70dB	56 NS	8 NS	40 NS	4 NS
J9-J6 >70dB	56 NS	7 NS	41 NS	4 NS
J9-J7 >70dB	48 NS	7 NS	44 NS	5 NS
J9-J8 >70dB	52 NS	8 NS	38 NS	4 NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

TEST: RA
 QA/QC: 02
 DATE: 10/1/98

FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80891

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

OB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80891
 CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

SVDC 450
 SVDC I= 110

INSERTION LOSS	RETURN LOSS					
	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.85 dB	10.70 dB	1.82 : 1	9.86 dB	1.94 : 1		
J9-J2 3.05 dB	12.55 dB	1.61 : 1	13.56 dB	1.53 : 1		
J9-J3 2.94 dB	11.74 dB	1.69 : 1	13.63 dB	1.52 : 1		
J9-J4 2.77 dB	12.18 dB	1.65 : 1	11.01 dB	1.78 : 1		
J9-J5 2.98 dB	11.73 dB	1.67 : 1	11.38 dB	1.73 : 1		
J9-J6 2.68 dB	13.79 dB	1.51 : 1	12.99 dB	1.57 : 1		
J9-J7 3.21 dB	12.42 dB	1.62 : 1	13.10 dB	1.56 : 1		
J9-J8 3.55 dB	10.90 dB	1.79 : 1	14.16 dB	1.48 : 1		

ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	50 NS	12 NS	32 NS	6 NS
J9-J2 >70dB	52 NS	10 NS	32 NS	6 NS
J9-J3 >70dB	58 NS	12 NS	28 NS	5 NS
J9-J4 >70dB	50 NS	8 NS	28 NS	4 NS
J9-J5 >70dB	48 NS	9 NS	28 NS	5 NS
J9-J6 >70dB	49 NS	9 NS	28 NS	4 NS
J9-J7 >70dB	52 NS	8 NS	27 NS	4 NS
J9-J8 >70dB	50 NS	8 NS	33 NS	6 NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

TEST : KA
 QA/QC : 02
 DATE : 10/1/98



FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80892

FORM: SW 01/069S



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80892
 CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+SVDC 450
 SVDC I= 40

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.44 dB	13.16 dB	1.56 : 1	13.37 dB	1.55 : 1		
J9-J2 3.03 dB	11.48 dB	1.73 : 1	9.57 dB	2.00 : 1		
J9-J3 3.10 dB	11.72 dB	1.70 : 1	10.34 dB	1.87 : 1		
J9-J4 3.57 dB	10.26 dB	1.89 : 1	9.54 dB	2.00 : 1		
J9-J5 2.99 dB	10.64 dB	1.83 : 1	9.10 dB	2.08 : 1		
J9-J6 2.94 dB	11.22 dB	1.76 : 1	11.69 dB	1.70 : 1		
J9-J7 3.34 dB	12.00 dB	1.33 : 1	9.38 dB	2.03 : 1		
J9-J8 3.39 dB	11.34 dB	1.74 : 1	11.30 dB	1.75 : 1		

SWITCHING SPEED				
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	55 NS	10 NS	33 NS	6 NS
J9-J2 >70dB	57 NS	12 NS	36 NS	8 NS
J9-J3 >70dB	48 NS	8 NS	34 NS	6 NS
J9-J4 >70dB	49 NS	8 NS	32 NS	5 NS
J9-J5 >70dB	56 NS	10 NS	32 NS	5 NS
J9-J6 >70dB	57 NS	11 NS	32 NS	5 NS
J9-J7 >70dB	53 NS	11 NS	33 NS	5 NS
J9-J8 >70dB	56 NS	12 NS	32 NS	5 NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

TEST : PA
 QA/QC : 02
 DATE : 10/1/98

FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80893

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80893
 CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+SVDC 450
 ISVDC I= 40

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.57 dB	9.58 dB	1.77 : 1	10.46 dB	1.86 : 1		
J9-J2 3.45 dB	10.65 dB	1.83 : 1	9.70 dB	1.97 : 1		
J9-J3 2.90 dB	13.18 dB	1.55 : 1	14.01 dB	1.49 : 1		
J9-J4 2.86 dB	10.33 dB	1.87 : 1	10.75 dB	1.81 : 1		
J9-J5 2.45 dB	12.84 dB	1.59 : 1	13.95 dB	1.50 : 1		
J9-J6 3.00 dB	11.68 dB	1.78 : 1	14.03 dB	1.49 : 1		
J9-J7 3.43 dB	13.24 dB	1.55 : 1	12.53 dB	1.62 : 1		
J9-J8 3.45 dB	11.33 dB	1.74 : 1	12.96 dB	1.58 : 1		

SWITCHING SPEED				
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	48 NS	6 NS	30 NS	7 NS
J9-J2 >70dB	50 NS	9 NS	30 NS	8 NS
J9-J3 >70dB	46 NS	6 NS	29 NS	5 NS
J9-J4 >70dB	48 NS	6 NS	34 NS	5 NS
J9-J5 >70dB	50 NS	6 NS	32 NS	5 NS
J9-J6 >70dB	48 NS	5 NS	29 NS	5 NS
J9-J7 >70dB	49 NS	7 NS	29 NS	5 NS
J9-J8 >70dB	45 NS	5 NS	33 NS	6 NS

NOTE: Any additional Test Data on Back

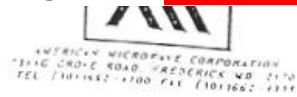
TESTED ON: 8757A/8350B

TEST : KIA
 QA/QC : 02
 DATE : 10/1/98

FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80894

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80894

CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler

SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+5VDC
 SVDC I = 450 mA
60

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1	3.52 dB	10.39 dB	1.86:1	13.89 dB	1.50:1	
J9-J2	3.40 dB	9.63 dB	1.98:1	10.46 dB	1.85:1	
J9-J3	3.26 dB	11.90 dB	1.68:1	13.46 dB	1.54:1	
J9-J4	3.72 dB	10.76 dB	1.81:1	11.64 dB	1.71:1	
J9-J5	2.88 dB	13.89 dB	1.50:1	15.67 dB	1.39:1	
J9-J6	4.00 dB	11.08 dB	1.77:1	9.54 dB	1.20:1	
J9-J7	3.27 dB	9.54 dB	1.20:1	11.85 dB	1.68:1	
J9-J8	3.91 dB	9.54 dB	1.20:1	11.74 dB	1.69:1	

SWITCHING SPEED					
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME	
J9-J1	>70 dB	58 NS	21 NS	28 NS	4 NS
J9-J2	>70 dB	60 NS	14 NS	40 NS	6 NS
J9-J3	>70 dB	65 NS	15 NS	44 NS	8 NS
J9-J4	>70 dB	62 NS	8 NS	36 NS	3 NS
J9-J5	>70 dB	62 NS	12 NS	36 NS	4 NS
J9-J6	>70 dB	62 NS	12 NS	39 NS	3 NS
J9-J7	>70 dB	53 NS	6 NS	38 NS	4 NS
J9-J8	>70 dB	54 NS	8 NS	42 NS	4 NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

TEST: _____
 QA/QC: _____
 DATE: 11

FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80895

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80895
 CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

rSVDC = 450
 SVDC I = 40

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 4.00 dB	9.84 dB	2.10 : 1	12.20 dB	1.65 : 1		
J9-J2 3.06 dB	9.68 dB	1.97 : 1	12.35 dB	1.63 : 1		
J9-J3 3.01 dB	10.42 dB	1.86 : 1	11.50 dB	1.72 : 1		
J9-J4 3.38 dB	10.92 dB	1.79 : 1	9.54 dB	2.10 : 1		
J9-J5 2.62 dB	9.70 dB	1.97 : 1	11.74 dB	1.69 : 1		
J9-J6 2.75 dB	9.54 dB	2.10 : 1	11.78 dB	1.69 : 1		
J9-J7 3.16 dB	9.64 dB	1.98 : 1	10.15 dB	1.90 : 1		
J9-J8 4.00 dB	9.54 dB	2.10 : 1	11.63 dB	1.70 : 1		

SWITCHING SPEED				
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	49 NS	6 NS	33 NS	NS
J9-J2 >70dB	50 NS	5 NS	30 NS	NS
J9-J3 >70dB	58 NS	10 NS	30 NS	NS
J9-J4 >70dB	58 NS	8 NS	31 NS	NS
J9-J5 >70dB	48 NS	5 NS	31 NS	NS
J9-J6 >70dB	48 NS	5 NS	32 NS	NS
J9-J7 >70dB	53 NS	9 NS	29 NS	NS
J9-J8 >70dB	48 NS	5 NS	33 NS	NS

NOTE: Any additional Test Data on Back

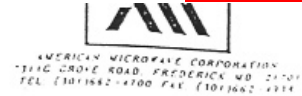
TESTED ON: 8757A/8350B

TEST : RA
 QA/QC : Q2
 DATE : 10/1/98

FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80896

FORM: SW 01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80896
 CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+SVDC 450
 -SVDC 40

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.66 dB	11.90 dB	1.68 : 1	12.60 dB	1.61 : 1		
J9-J2 2.86 dB	13.78 dB	1.51 : 1	14.19 dB	1.48 : 1		
J9-J3 3.30 dB	15.23 dB	1.42 : 1	14.32 dB	1.47 : 1		
J9-J4 2.84 dB	11.03 dB	1.78 : 1	11.70 dB	1.70 : 1		
J9-J5 2.77 dB	11.89 dB	1.68 : 1	11.37 dB	1.74 : 1		
J9-J6 2.96 dB	14.40 dB	1.47 : 1	14.37 dB	1.47 : 1		
J9-J7 2.48 dB	13.23 dB	1.55 : 1	17.58 dB	1.30 : 1		
J9-J8 3.71 dB	10.38 dB	1.96 : 1	16.14 dB	1.37 : 1		

SWITCHING SPEED				
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	55 NS	10 NS	46 NS	8 NS
J9-J2 >70dB	55 NS	10 NS	48 NS	9 NS
J9-J3 >70dB	55 NS	10 NS	43 NS	8 NS
J9-J4 >70dB	52 NS	9 NS	46 NS	10 NS
J9-J5 >70dB	46 NS	9 NS	44 NS	8 NS
J9-J6 >70dB	47 NS	8 NS	35 NS	7 NS
J9-J7 >70dB	46 NS	8 NS	40 NS	11 NS
J9-J8 >70dB	45 NS	8 NS	33 NS	8 NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

TEST : KP
 QA/QC : 02
 DATE : 10/1/98

FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80897

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80897
 CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Beuther
 SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+5VDC
 ISVDC I = $\frac{450}{40}$ mA

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.30 dB	12.68 dB	1.60 : 1	12.1 dB	1.65 : 1		
J9-J2 2.96 dB	13.77 dB	1.51 : 1	14.4 dB	1.46 : 1		
J9-J3 2.56 dB	12.33 dB	1.63 : 1	12.4 dB	1.62 : 1		
J9-J4 2.78 dB	12.60 dB	1.61 : 1	11.4 dB	1.73 : 1		
J9-J5 2.51 dB	13.85 dB	1.51 : 1	14.6 dB	1.45 : 1		
J9-J6 2.90 dB	13.96 dB	1.50 : 1	13.7 dB	1.51 : 1		
J9-J7 3.56 dB	11.63 dB	1.70 : 1	10.1 dB	1.89 : 1		
J9-J8 3.58 dB	11.83 dB	1.68 : 1	12.7 dB	1.59 : 1		

SWITCHING SPEED				
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	46 NS	5 NS	30 NS	4 NS
J9-J2 >70dB	52 NS	10 NS	33 NS	6 NS
J9-J3 >70dB	45 NS	5 NS	30 NS	5 NS
J9-J4 >70dB	47 NS	5 NS	32 NS	5 NS
J9-J5 >70dB	50 NS	6 NS	30 NS	5 NS
J9-J6 >70dB	48 NS	8 NS	30 NS	5 NS
J9-J7 >70dB	46 NS	6 NS	32 NS	6 NS
J9-J8 >70dB	54 NS	10 NS	30 NS	5 NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

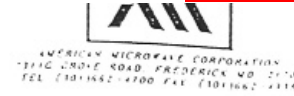
TEST : _____
 QA/QC : E#30 Q2
 DATE : 10/1/98



FINAL TEST DATA

AMC MODEL NO: MSN-8DR-06-STANDARD OPTIONS B02, SERIAL NUMBER: 8MS80898

FORM: SW-01/0698



DATE: 30 Sep 98

MICROWAVE SWITCH FINAL TEST DATA

JOB NO: 80120-3E MODEL NO: MSN-8DR-06 SERIAL NO: 8MS80898

CUSTOMER: AEROFLEX LINTEK TECHNICIAN: Randy Butler

SPECIFICATION: STANDARD FREQUENCY RANGE: 0.5-18.0 GHz

+5VDC 45V
 -5VDC 40

RETURN LOSS						
INSERTION LOSS	INPUT dB	INPUT VSWR	OUTPUT ON dB	OUTPUT ON VSWR	OUTPUT OFF dB	OUTPUT OFF VSWR
J9-J1 3.68 dB	9.91 dB	1.93 : 1	13.26 dB	1.55 : 1		
J9-J2 3.40 dB	9.54 dB	2.00 : 1	10.65 dB	1.83 : 1		
J9-J3 3.05 dB	11.42 dB	1.73 : 1	12.40 dB	1.63 : 1		
J9-J4 2.79 dB	10.73 dB	1.81 : 1	12.07 dB	1.66 : 1		
J9-J5 3.05 dB	10.74 dB	1.85 : 1	10.89 dB	1.79 : 1		
J9-J6 3.19 dB	12.06 dB	1.66 : 1	14.26 dB	1.49 : 1		
J9-J7 3.77 dB	9.54 dB	2.00 : 1	12.02 dB	1.67 : 1		
J9-J8 3.90 dB	10.16 dB	1.90 : 1	11.50 dB	1.72 : 1		

SWITCHING SPEED				
ISOLATION	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J9-J1 >70dB	46 NS	6 NS	32 NS	NS
J9-J2 >70dB	50 NS	8 NS	34 NS	NS
J9-J3 >70dB	55 NS	8 NS	34 NS	NS
J9-J4 >70dB	56 NS	11 NS	36 NS	NS
J9-J5 >70dB	58 NS	11 NS	36 NS	NS
J9-J6 >70dB	57 NS	11 NS	37 NS	NS
J9-J7 >70dB	59 NS	11 NS	35 NS	NS
J9-J8 >70dB	57 NS	12 NS	35 NS	NS

NOTE: Any additional Test Data on Back

TESTED ON: 8757A/8350B

TEST : RA
 QA/QC : 02
 DATE : 10/1/98