



TEST REPORT

ON

SP4T

ABSORPTIVE / NON-REFLECTIVE

300 MHz TO 26.5 GHz

SOLID STATE RADIAL SWITCH

AMC MODEL No:

SWN-1140-4DT-SP

Option 300M27

Serial Numbers: 4MS005046 THRU 4MS005049

DESIGNED
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TESTED
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ISO9001 : 1994 CERTIFIED

Handwritten notes:
 pw
 ESC.
 WMS
 M22
 DRH
 GK
 JDT
 PA
 SEM
 LC

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SINGLE POLE, FOUR THROW ABSORPTIVE / NON-REFLECTIVE SOLID STATE SWITCH AMC MODEL No: SWN-1140-4DT-SP OPTION 300M27

FEATURES:

- **BROADBAND**
- **300 MHz TO 26.5 GHz FREQUENCY RANGE**
- **ABSORPTIVE / NON-REFLECTIVE**
- **TTL LOGIC**

SPECIFICATIONS:

- **FREQUENCY** : 300 MHz TO 26.5 GHz
- **INSERTION LOSS** : 3.75 dB
- **ISOLATION** : 60 dB MINIMUM
- **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** : + 5 V @ 200 mA MAXIMUM
: -12 V @ 100 mA MAXIMUM

FINAL TEST DATA

FINAL TEST DATA SHEETS

FOR

AMC MODEL NUMBER

SWN-1140-4DT-SP
OPTION 300M27

Serial Numbers:

4MS005046 THRU 4MS005049

FINAL TEST DATA

AMC MODEL NUMBER: SWN-1140-4DT-SP OPTION 300M27, SERIAL NUMBER: 4MS005046

FORM: 132-SW-DTA 10/1/00



AMERICAN MICROWAVE CORPORATION

DATE: 10/2/00

FINAL TEST DATA
 ON
 MICROWAVE SWITCH

CUSTOMER: AEROFLEX LINTEK
 JOB NO: 004078E
 MODEL NO: SWN-1140-4DT-SP
 SERIAL NO: 4MS005046
 CURRENT DRAW: +5 VDC @ 109 mA; -12 VDC @ 52 mA

TECHNICIAN: Rk
 OPTION NO: 300M27
 FREQUENCY RANGE: 0.3 - 26.5 GHz

INSERTION LOSS	RETURN LOSS (WORST CASE)				
	INPUT dB		OUTPUT ON dB		OUTPUT OFF dB
J8-J2 4.97 dB	6.62 dB		9.63 dB		4.14 dB
J8-J3 5.18 dB	10.94 dB		7.53 dB		3.19 dB
J8-J5 5.17 dB	10.88 dB		7.38 dB		5.14 dB
J8-J6 5.64 dB	8.00 dB		6.79 dB		2.97 dB

ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J8-J2 60 dB	66 nS	5 nS	74 nS	32 nS
J8-J3 60 dB	68 nS	8 nS	74 nS	34 nS
J8-J5 60 dB	64 nS	4 nS	64 nS	25 nS
J8-J6 60 dB	68 nS	6 nS	58 nS	21 nS

NOTE: Any additional test data on back

TESTED ON: HP 8722D

TEST: Rk
 QA/QC: 04 Donald Harman
 DATED: 10/1/00

FINAL TEST DATA

AMC MODEL NUMBER: SWN-1140-4DT-SP OPTION 300M27, SERIAL NUMBER: 4MS005047

FORM: 132-SW-DTA 10/11/00



AMERICAN MICROWAVE CORPORATION

DATE: 10/2/00

FINAL TEST DATA
 ON
 MICROWAVE SWITCH

CUSTOMER: AEROFLEX LINTEK
 JOB NO: 004078E
 MODEL NO: SWN-1140-4DT-SP
 SERIAL NO: 4MS005047
 CURRENT DRAW: +5 VDC @ 112 mA; -12 VDC @ 33 mA

TECHNICIAN: PA
 OPTION NO: 300M27
 FREQUENCY RANGE: 0.3 - 26.5 GHz

INSERTION LOSS	RETURN LOSS (WORST CASE)				
	INPUT dB		OUTPUT ON dB		OUTPUT OFF dB
J8-J2 6.31 dB	5.63 dB		5.15 dB		2.65 dB
J8-J3 5.16 dB	6.45 dB		7.90 dB		4.81 dB
J8-J5 5.51 dB	6.84 dB		8.50 dB		7.71 dB
J8-J6 5.46 dB	6.69 dB		7.58 dB		3.34 dB

ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J8-J2 60 dB	66 nS	3 nS	76 nS	36 nS
J8-J3 60 dB	65 nS	4 nS	72 nS	20 nS
J8-J5 60 dB	63 nS	3 nS	65 nS	22 nS
J8-J6 60 dB	64 nS	3 nS	62 nS	22 nS

NOTE: Any additional test data on back

TESTED ON: HP 8722D

TEST: PA
 QA/QC: Q4 Donald Harmon
 DATED: 10/1/00

FINAL TEST DATA

AMC MODEL NUMBER: SWN-1140-4DT-SP OPTION 300M27, SERIAL NUMBER: 4MS005048

FORM: 132-SW-DTA 10/11/00



AMERICAN MICROWAVE CORPORATION

DATE: 10/2/00

FINAL TEST DATA
 ON
 MICROWAVE SWITCH

CUSTOMER: AEROFLEX LINTEK
 JOB NO: 004078E
 MODEL NO: SWN-1140-4DT-SP
 SERIAL NO: 4MS005048
 CURRENT DRAW: +5 VDC @ 112 mA; -12 VDC @ 55 mA

TECHNICIAN: PH
 OPTION NO: 300M27
 FREQUENCY RANGE: 0.3 - 26.5 GHz

INSERTION LOSS	RETURN LOSS (WORST CASE)				
	INPUT dB		OUTPUT ON dB		OUTPUT OFF dB
J8-J2 6.07 dB	7.88 dB		8.05 dB		3.39 dB
J8-J3 5.55 dB	6.83 dB		8.99 dB		3.64 dB
J8-J5 4.98 dB	8.09 dB		7.87 dB		4.92 dB
J8-J6 6.37 dB	7.20 dB		9.45 dB		4.91 dB

ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J8-J2 60 dB	70 nS	7 nS	81 nS	40 nS
J8-J3 60 dB	68 nS	6 nS	64 nS	24 nS
J8-J5 60 dB	62 nS	3 nS	62 nS	23 nS
J8-J6 60 dB	65 nS	5 nS	66 nS	17 nS

NOTE: Any additional test data on back

TESTED ON: HP 8722D

TEST: PH
 QA/QC: 04 Ronald Hornum
 DATED: 10/1/00

FINAL TEST DATA

AMC MODEL NUMBER: SWN-1140-4DT-SP OPTION 300M27, SERIAL NUMBER: 4MS005049

FORM: 152-SW-DTA 10/2000



AMERICAN MICROWAVE CORPORATION

DATE: 10/2/00

FINAL TEST DATA
 ON
 MICROWAVE SWITCH

CUSTOMER: AEROFLEX LINTEK
 JOB NO: 004078E
 MODEL NO: SWN-1140-4DT-SP
 SERIAL NO: 4MS005049
 CURRENT DRAW: +5 VDC @ 97 mA; -12 VDC @ 74 mA

TECHNICIAN: PH
 OPTION NO: 300M27
 FREQUENCY RANGE: 0.3 - 26.5 GHz

INSERTION LOSS	RETURN LOSS (WORST CASE)				
	INPUT dB		OUTPUT ON dB		OUTPUT OFF dB
J8-J2 5.32 dB	7.39 dB		7.71 dB		5.69 dB
J8-J3 4.87 dB	7.77 dB		8.34 dB		3.86 dB
J8-J5 5.36 dB	8.26 dB		7.94 dB		4.73 dB
J8-J6 5.64 dB	6.72 dB		6.65 dB		4.82 dB

ISOLATION	SWITCHING SPEED			
	DELAY ON	RISE TIME	DELAY OFF	FALL TIME
J8-J2 100 dB	62 nS	3 nS	61 nS	21 nS
J8-J3 60 dB	63 nS	3 nS	61 nS	20 nS
J8-J5 60 dB	65 nS	5 nS	61 nS	24 nS
J8-J6 60 dB	63 nS	5 nS	70 nS	14 nS

NOTE: Any additional test data on back

TESTED ON: HP 8722D

TEST: PH
 QA/QC: Q4 Donald Hammer
 DATED: 10/1/00