

DESCRIPTION

AMC MODEL MSN-65DT-051-DEC-MP OPT .1-4..NI IS A SP65T ABSORPTIVE PIN DIODE SWITCH DESIGNED FOR THE 100MHZ TO 4GHZ FREQUENCY RANGE,

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ER# 031-11	4/4/11	Rd
	B	SEE ECN# 11-065	6/28/11	Rd
	C	SEE ECN# 11-091	9/28/11	Rd

SPECIFICATIONS:

- FREQUENCY RANGE: 100MHz - 4GHz
- ISOLATION: 40dB MINIMUM
- INSERTION LOSS: 15dB MAXIMUM
- VSWR:
 - (0.1 - 0.3GHz) 1.25:1 MAXIMUM(ON OR OFF INPUT PORT/ALL PORTS 50 OHMS)
 - (0.3 - 4.0GHz) 2.0:1 MAXIMUM(ON OR OFF INPUT PORT/ALL PORTS ~50 OHMS)
 - (0.1 - 4.0GHz) 2.5:1 MAXIMUM(ON/OFF OUTPUT PORT)
- SWITCHING SPEED DELAY ON/OFF: 150nSEC MAXIMUM
RISE/FALL: 50 nSEC MAXIMUM
- UNIFORMITY: ±0.50 MAXIMUM, ±10° PHASE
- CONTROL LOGIC: SEE LOGIC TABLE ON SHEET 2
- RF INPUT POWER: +20dBm, CW, MAXIMUM
- POWER SUPPLY: +5 VDC @ 4.0 A, MAXIMUM
-5 VDC @ 1.25A, MAXIMUM
- RF CONNECTORS: SMA FEMALE
- POWER/LOGIC CONNECTIONS: 15 PIN D SUB

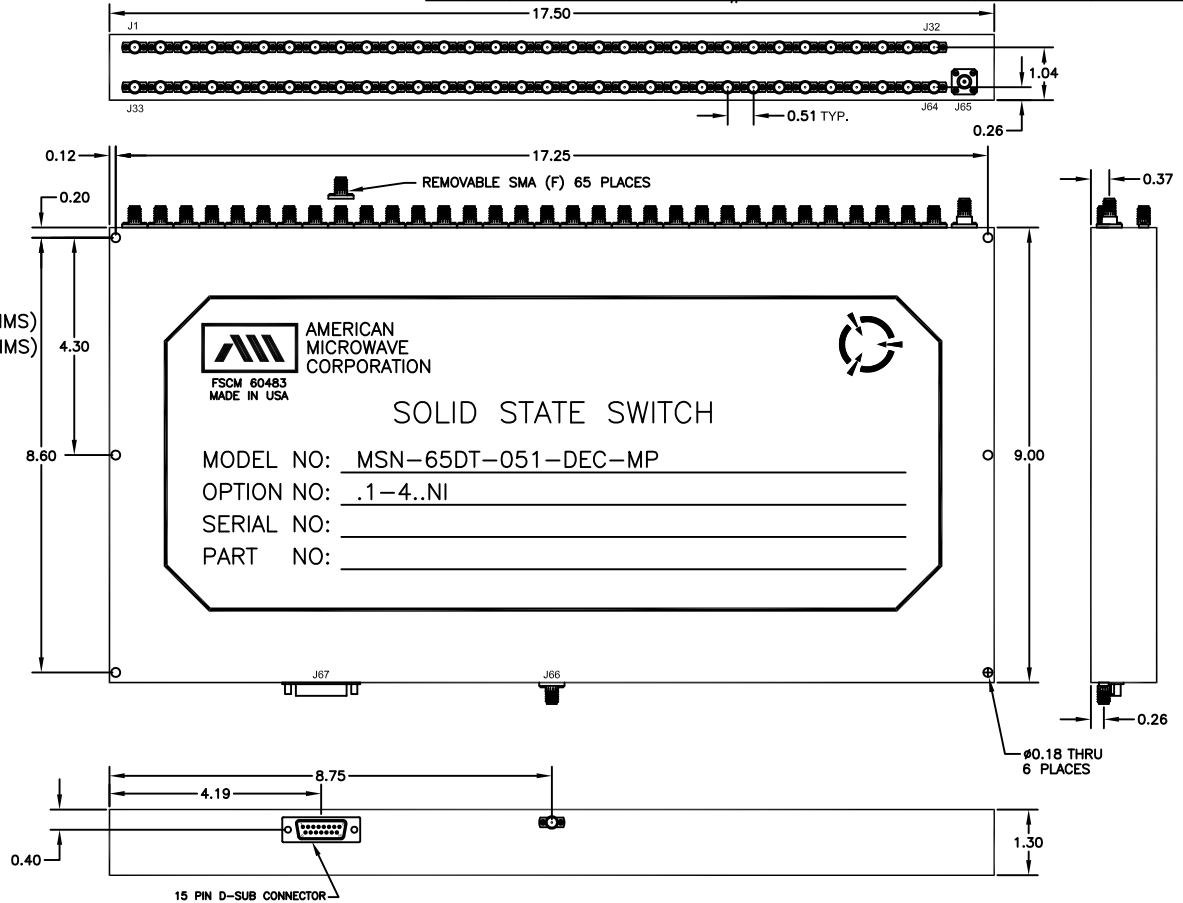
OPTIONS:

- .1-4..NI 100MHz - 4GHz FREQUENCY RANGE

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-65°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 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION
* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.



PIN OUT TABLE	
PIN NO.	FUNCTION
1	A6
2	A5
3	A4
4	A3
5	A2
6	A1
7	A0
8	GND
9	+V
10	+V
11	+V
12	+V
13	-V
14	-V
15	GND

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

AMERICAN MICROWAVE CORPORATION

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FREDERICK, MARYLAND 21704 USA
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WEBSITE: www.americannmicrowavecorp.com
E-MAIL: sales@americannmicrowavecorp.com
ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	<i>K JPMMS</i>	4/4/11	PRODUCT FEATURE		
ENG	<i>Rd</i>	4/4/11	MSN-65DT-051-DEC-MP		
QAE	<i>K JPMMS</i>	4/4/11	OPT .1-4..NI		
SIZE	FSCM NO.	DWG NO.	REV.		
A	60483	100-8075	C		
SCALE N:S			SHEET 1 OF 2		

PORT	A6	A5	A4	A3	A2	A1	A0
J1	0	0	0	0	0	0	0
J2	0	0	0	0	0	0	1
J3	0	0	0	0	0	1	0
J4	0	0	0	0	0	1	1
J5	0	0	0	0	1	0	0
J6	0	0	0	0	1	0	1
J7	0	0	0	0	1	1	0
J8	0	0	0	0	1	1	1
J9	0	0	0	1	0	0	0
J10	0	0	0	1	0	0	1
J11	0	0	0	1	0	1	0
J12	0	0	0	1	0	1	1
J13	0	0	0	1	1	0	0
J14	0	0	0	1	1	0	1
J15	0	0	0	1	1	1	0
J16	0	0	0	1	1	1	1
J17	0	0	1	0	0	0	0
J18	0	0	1	0	0	0	1
J19	0	0	1	0	0	1	0
J20	0	0	1	0	0	1	1
J21	0	0	1	0	1	0	0
J22	0	0	1	0	1	0	1
J23	0	0	1	0	1	1	0
J24	0	0	1	0	1	1	1
J25	0	0	1	1	0	0	0
J26	0	0	1	1	0	0	1
J27	0	0	1	1	0	1	0
J28	0	0	1	1	0	1	1
J29	0	0	1	1	1	0	0
J30	0	0	1	1	1	0	1
J31	0	0	1	1	1	1	0
J32	0	0	1	1	1	1	1

PORT	A6	A5	A4	A3	A2	A1	A0
J33	0	1	0	0	0	0	0
J34	0	1	0	0	0	0	1
J35	0	1	0	0	0	1	0
J36	0	1	0	0	0	1	1
J37	0	1	0	0	1	0	0
J38	0	1	0	0	1	0	1
J39	0	1	0	0	1	1	0
J40	0	1	0	0	1	1	1
J41	0	1	0	1	0	0	0
J42	0	1	0	1	0	0	1
J43	0	1	0	1	0	1	0
J44	0	1	0	1	0	1	1
J45	0	1	0	1	1	0	0
J46	0	1	0	1	1	0	1
J47	0	1	0	1	1	1	0
J48	0	1	0	1	1	1	1
J49	0	1	1	0	0	0	0
J50	0	1	1	0	0	0	1
J51	0	1	1	0	0	1	0
J52	0	1	1	0	0	1	1
J53	0	1	1	0	1	0	0
J54	0	1	1	0	1	0	1
J55	0	1	1	0	1	1	0
J56	0	1	1	0	1	1	1
J57	0	1	1	1	0	0	0
J58	0	1	1	1	0	0	1
J59	0	1	1	1	0	1	0
J60	0	1	1	1	0	1	1
J61	0	1	1	1	1	0	0
J62	0	1	1	1	1	0	1
J63	0	1	1	1	1	1	0
J64	0	1	1	1	1	1	1

CAL	1	0	X	X	X	X	X
ALL OFF	1	1	X	X	X	X	X

1 = HIGH VOLTAGE LEVEL
0 = LOW VOLTAGE LEVEL
X = IMMATERIAL
CALPORT = NOT PHASED MATCH

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

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SCALE N:S			SHEET 2 OF 2		