

DESCRIPTION

AMC MODEL MSN-48DT-05-DEC-MP OPTION 182105, B02, HI80DB IS A SP48T ABSORPTIVE PIN DIODE SWITCH DESIGNED FOR THE 18 TO 21.5 FREQUENCY RANGE, 80DB ISOLATION AND -15 VOLT POWER SUPPLY.

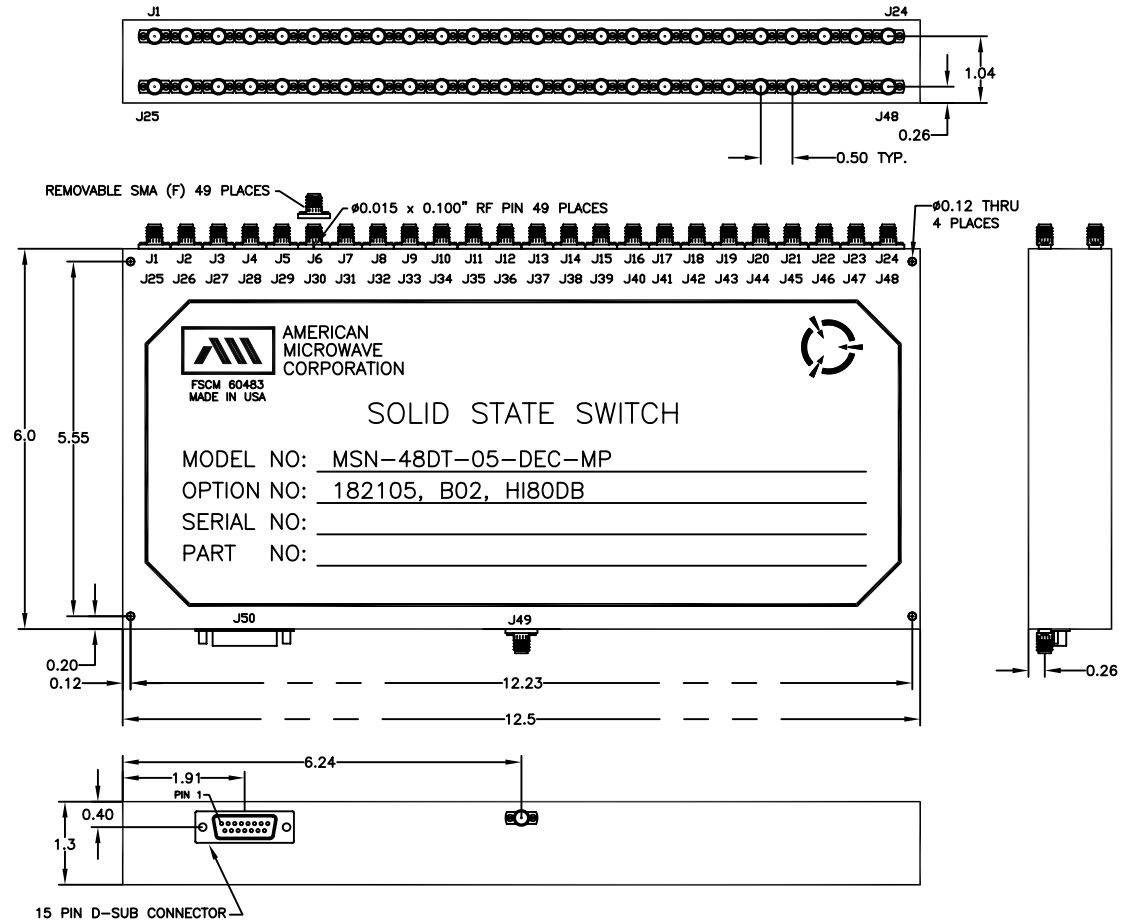
SPECIFICATIONS:

- FREQUENCY RANGE: 18 - 21.5 GHz
- ISOLATION: 80dB MINIMUM
- INSERTION LOSS: 11.5dB MAXIMUM
- VSWR: 2.2:1 MAXIMUM
- SWITCHING SPEED: 250 nSec MAXIMUM
- CONTROL LOGIC: SEE LOGIC TABLE ON SHEET 2
- RF INPUT POWER: +20dBm, CW, MAXIMUM
- POWER SUPPLY: +5 VDC @ 2.4 A, MAXIMUM
-15 VDC @ 250 mA, MAXIMUM
- RF CONNECTORS: SMA FEMALE
- POWER/LOGIC CONNECTIONS: 15 PIN D SUB

OPTIONS:

- 182105: 18 TO 21.5 FREQUENCY RANGE
- B02: -15V POWER SUPPLY
- HI80DB: 80dB ISOLATION MINIMUM

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	5/4/09	



PIN NO.	FUNCTION
1	B0
2	B1
3	B2
4	B3
5	B4
6	B5
7	+V
8	+V
9	+V
10	-V
11	-V
12	GND
13	GND
14	GND
15	N/C

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.X ±0.030
 X.XX ±0.020
 X.XXX ±0.010

AMERICAN MICROWAVE CORPORATION

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 ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN K SIMMS		5/4/09	PRODUCT FEATURE MSN-48DT-05-DEC-MP OPTIONS: 182105, B02, HI80DB		
MANUFACTURING			SIZE A	FSCM NO. 60483	DWG NO. 100-7849
QUALITY			SCALE N:S		REV. A
					SHEET 1 OF 2

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	5/4/09	<i>AK</i>

LOGIC TABLE						
OUTPUT PORT	B5	B4	B3	B2	B1	B0
J1	0	0	0	0	0	0
J2	0	0	0	0	0	1
J3	0	0	0	0	1	0
J4	0	0	0	0	1	1
J5	0	0	0	1	0	0
J6	0	0	0	1	0	1
J7	0	0	0	1	1	0
J8	0	0	0	1	1	1
J9	0	0	1	0	0	0
J10	0	0	1	0	0	1
J11	0	0	1	0	1	0
J12	0	0	1	0	1	1
J13	0	0	1	1	0	0
J14	0	0	1	1	0	1
J15	0	0	1	1	1	0
J16	0	0	1	1	1	1

LOGIC TABLE CONTINUED						
OUTPUT PORT	B5	B4	B3	B2	B1	B0
J17	0	1	0	0	0	0
J18	0	1	0	0	0	1
J19	0	1	0	0	1	0
J20	0	1	0	0	1	1
J21	0	1	0	1	0	0
J22	0	1	0	1	0	1
J23	0	1	0	1	1	0
J24	0	1	0	1	1	1
J25	0	1	1	0	0	0
J26	0	1	1	0	0	1
J27	0	1	1	0	1	0
J28	0	1	1	0	1	1
J29	0	1	1	1	0	0
J30	0	1	1	1	0	1
J31	0	1	1	1	1	0
J32	0	1	1	1	1	1

LOGIC TABLE CONTINUED						
OUTPUT PORT	B5	B4	B3	B2	B1	B0
J33	1	0	0	0	0	0
J34	1	0	0	0	0	1
J35	1	0	0	0	1	0
J36	1	0	0	0	1	1
J37	1	0	0	1	0	0
J38	1	0	0	1	0	1
J39	1	0	0	1	1	0
J40	1	0	0	1	1	1
J41	1	0	1	0	0	0
J42	1	0	1	0	0	1
J43	1	0	1	0	1	0
J44	1	0	1	0	1	1
J45	1	0	1	1	0	0
J46	1	0	1	1	0	1
J47	1	0	1	1	1	0
J48	1	0	1	1	1	1

0 = LOW VOLTAGE LEVEL
1 = HIGH VOLTAGE LEVEL

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

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APPROVALS		DATE	TITLE		
DRAWN K SIMMS		5/4/09	PRODUCT FEATURE		
MANUFACTURING <i>AK</i>		5/16/09	MSN-48DT-05-DEC-MP		
QUALITY			SIZE A	FSQM NO. 60483	REV. A
			DWG NO. 100-7849	OPTIONS: 182105, B02, H180DB	
			SCALE N:S	SHEET 2 OF 2	