

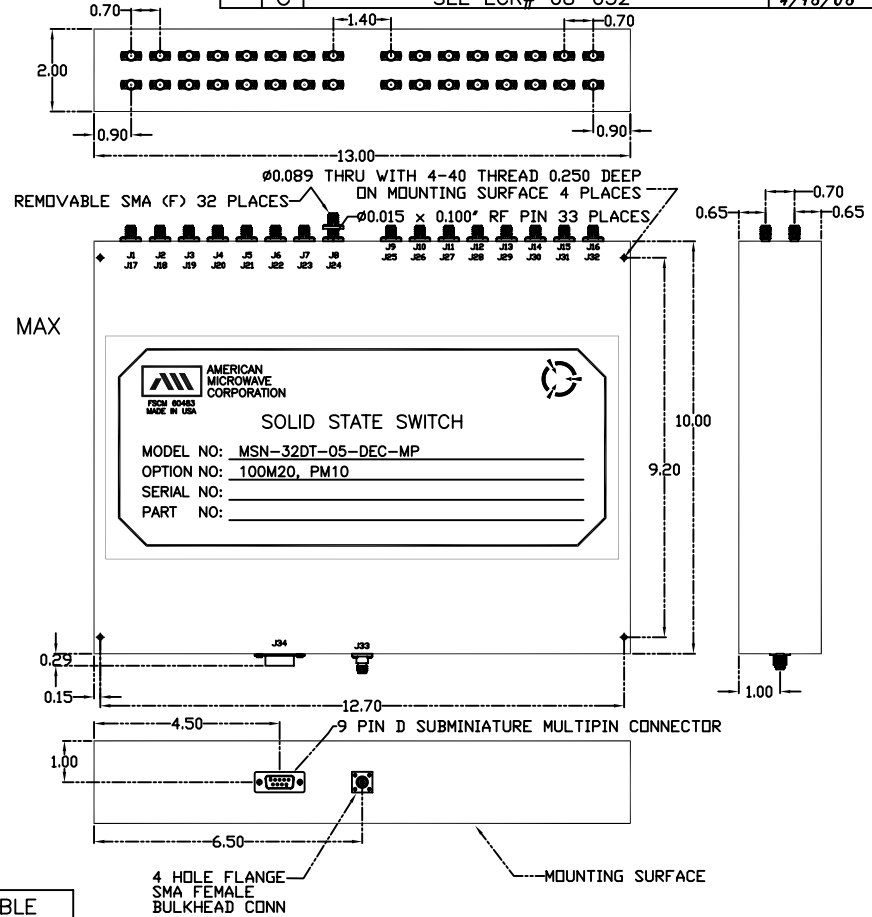
DESCRIPTION

AMC MODEL MSN-32DT-05-DEC-MP OPTION 100M20, PM10 IS A SP32T PHASE MATCHED PORT TO PORT NON-REFLECTIVE/ABSORPTIVE PIN DIODE SWITCH DESIGNED FOR THE 0.1 TO 20 GHz FREQUENCY RANGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 705103PE	06/13/07	RA
	A	CHNG. CONN. SPACING, DEL. SIZE GOAL	06/15/07	RA
	B	SEE ECR# 07-122 (ADDED LOGIC TABLE)	9/30/07	
	C	SEE ECR# 08-032	4/18/08	

SPECIFICATIONS:

- FREQUENCY RANGE: 0.1 – 20 GHz
- PORT TO PORT ISOLATION: 0.1 GHz TO 20 GHz: 70dB MINIMUM
PERFORMANCE GOAL: 80dB MINIMUM
- INSERTION LOSS: 0.1 GHz TO 20 GHz: 14.0dB MAX
PERFORMANCE GOAL: 13.0dB MAX
- PORT TO PORT DIFFERENCE:
 - AMPLITUDE BALANCE (BASED ON WORSE CASE INSERTION LOSS DATA) ± 1.1 dB MAX
 - PHASE: $\pm 10^\circ$, MAX
 - PERFORMANCE GOAL: $\pm 7^\circ$
- VSWR: 0.1 GHz TO 20 GHz: 2.2:1
- RF INPUT POWER: +20dBm, CW, MAX.
- RF CONNECTORS: PRECISION SMA, FEMALE
- CONTROL LOGIC: 5 BIT BINARY, TTL COMPATIBLE
- SWITCHING SPEED (10% – 90%): 165 nSec, MAX.
- POWER SUPPLY: ± 5 VDC @ 1.75/-0.25 A, MAXIMUM
- POWER/LOGIC CONNECTIONS: DE-9P, SUB-MINIATURE D
- SIZE: 13"(L) x 10"(W) x 2"(H)
- CONNECTOR SPACING: 0.7" CENTER-TO-CENTER, MIN.
- OPERATING TEMPERATURE RANGE: -55 TO +85 DEGREES C



PIN NO.	FUNCTION
1	E1
2	E2
3	E3
4	E4
5	E5
6	N/C
7	+V
8	-V
9	GND

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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

AMERICAN MICROWAVE CORPORATION

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WEBSITE: www.americanmicrowavecorp.com
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ISO 9001:2000 CERTIFIED

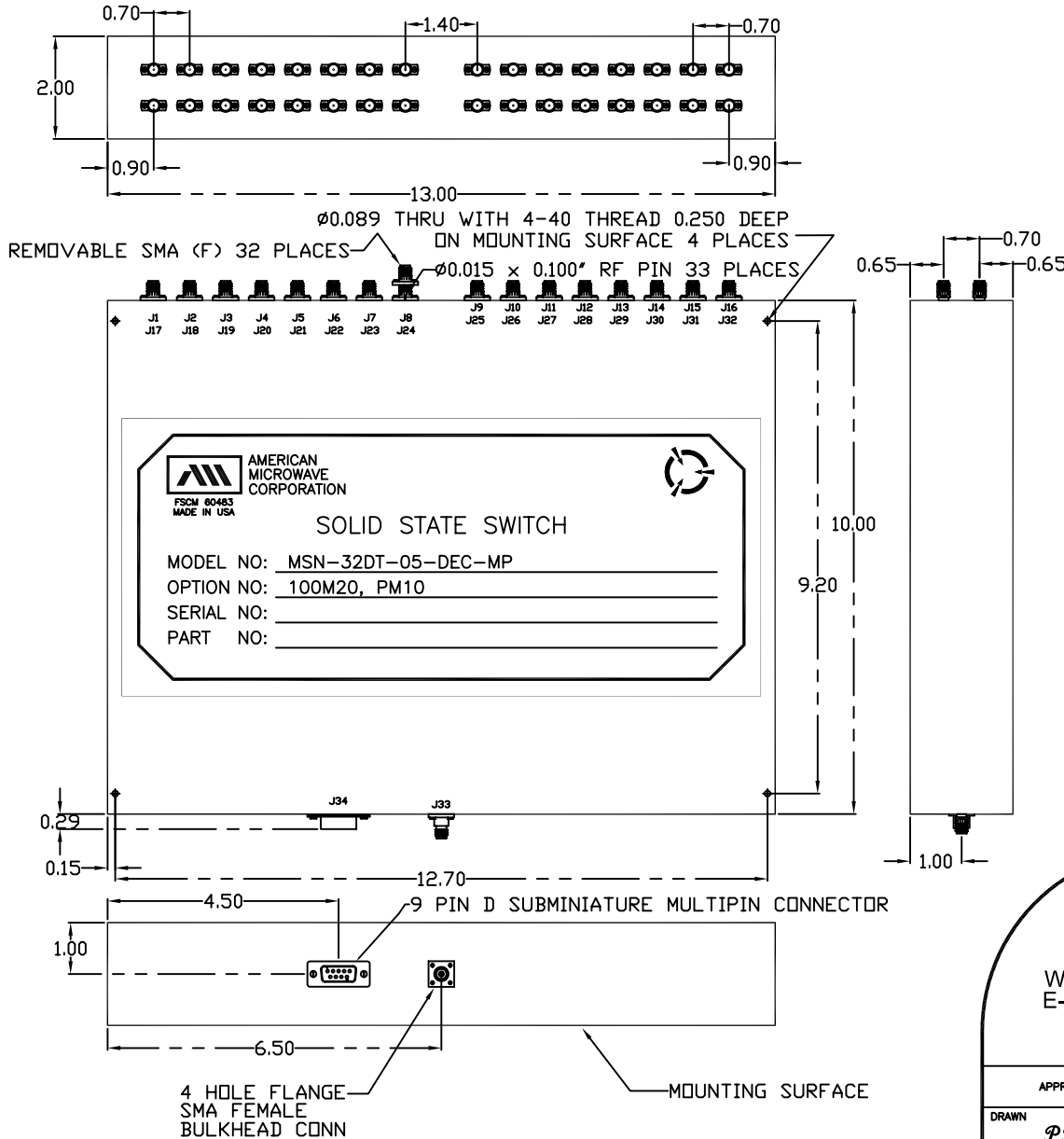


APPROVALS		DATE	TITLE		
DRAWN <i>PRB</i>		06/13/07	PRODUCT FEATURE MSN-32DT-05-DEC-MP OPTIONS: 100M20, PM10		
CHECKED <i>RA</i>		06/18/07	SIZE	FSCM NO.	DWG NO.
ISSUED			A	60483	100-4059-006
			SCALE	N:S	SHEET 1 OF 3

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TITLE MECHANICAL OUTLINE DRAWING
MSN-32DT-05-DEC-MP
OPTIONS: 100M20, PM10

APPROVALS	DATE
DRAWN <i>PRB</i>	06/13/07
CHECKED <i>RA</i>	06/18/07
ISSUED	

SIZE A	FSCM NO. 60483	DWG NO. 100-4059-006	REV. C
SCALE N:S		SHEET 2 OF 3	

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LOGIC TABLE					
OUTPUT PORT	E1	E2	E3	E4	E5
J1	L	L	L	L	L
J2	H	L	L	L	L
J3	L	H	L	L	L
J4	H	H	L	L	L
J5	L	L	H	L	L
J6	H	L	H	L	L
J7	L	H	H	L	L
J8	H	H	H	L	L
J9	L	L	L	H	L
J10	H	L	L	H	L
J11	L	H	L	H	L
J12	H	H	L	H	L
J13	L	L	H	H	L
J14	H	L	H	H	L
J15	L	H	H	H	L
J16	H	H	H	H	L

LOGIC TABLE CONTINUED					
OUTPUT PORT	E1	E2	E3	E4	E5
J17	L	L	L	L	H
J18	H	L	L	L	H
J19	L	H	L	L	H
J20	H	H	L	L	H
J21	L	L	H	L	H
J22	H	L	H	L	H
J23	L	H	H	L	H
J24	H	H	H	L	H
J25	L	L	L	H	H
J26	H	L	L	H	H
J27	L	H	L	H	H
J28	H	H	L	H	H
J29	L	L	H	H	H
J30	H	L	H	H	H
J31	L	H	H	H	H
J32	H	H	H	H	H

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APPROVALS		DATE	TITLE MECHANICAL OUTLINE DRAWING MSN-32DT-05-DEC-MP OPTIONS: 100M20, PM10		
DRAWN	<i>PRB</i>	06/13/07	SIZE	FSCM NO.	REV.
CHECKED	<i>RA</i>	06/18/07	A	60483	C
ISSUED			DWG NO.	100-4059-006	SHEET 3 OF 3
			SCALE	N:S	