

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.

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) ...± 1.1dB MAX

PHASE:± 10°, MAX

PERFORMANCE GOAL:± 7°

VSWR:0.1 GHz TO 20 GHz: 2.0:1

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

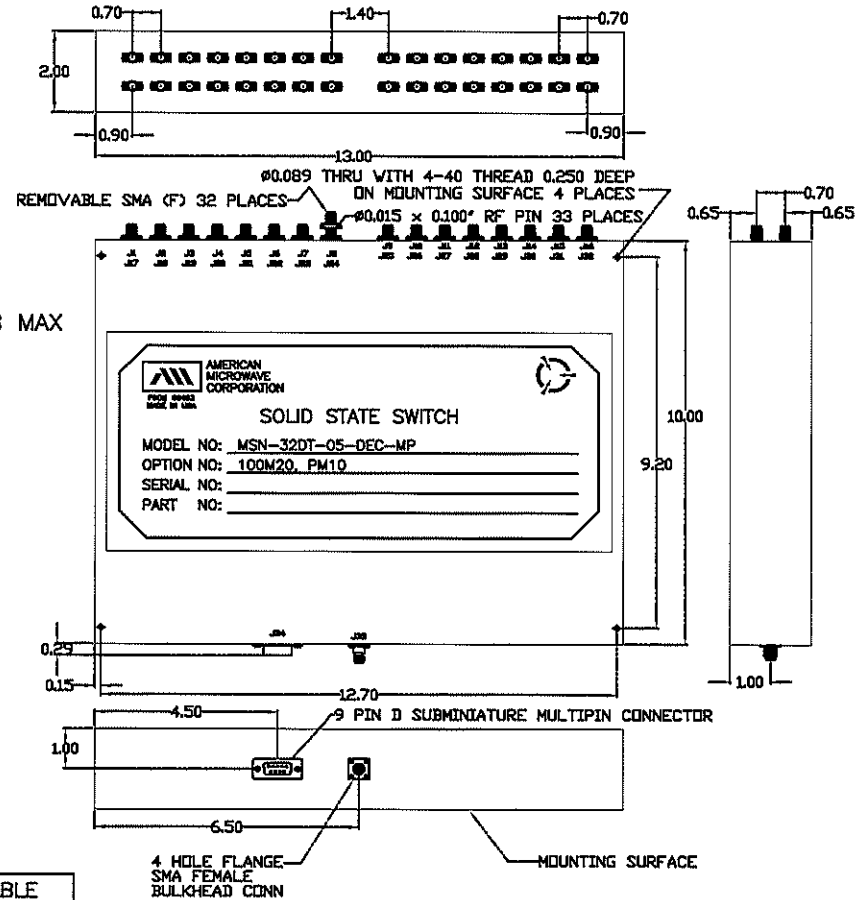
POWER/LOGIC CONNECTIONS: ...DE-9P, SUB-MINIATURE D

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

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	RA



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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ISO 9001:2000 CERTIFIED

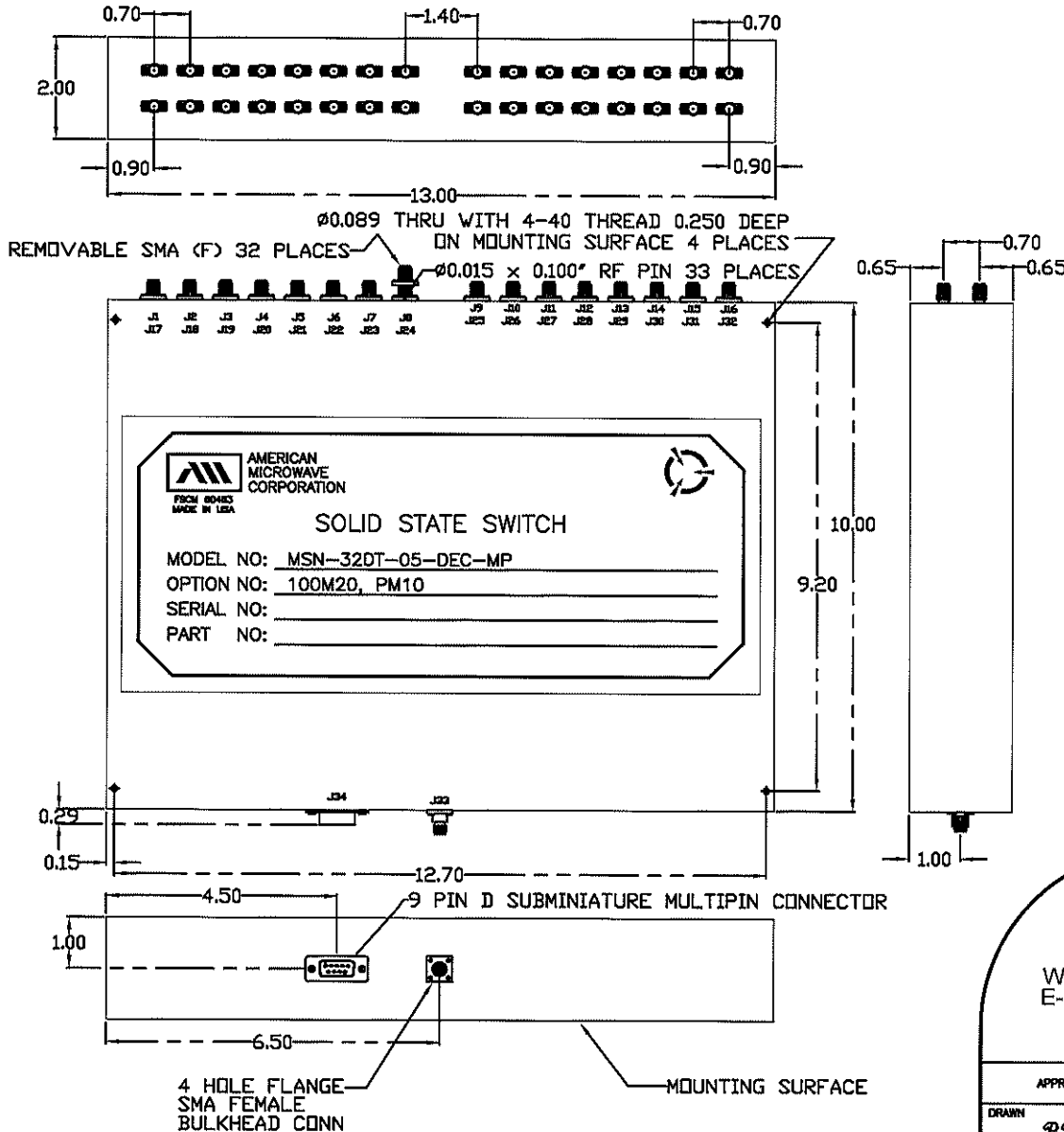


APPROVALS		DATE	TITLE			
DRAWN	PRB	06/13/07	PRODUCT FEATURE MSN-32DT-05-DEC-MP OPTIONS: 100M20, PM10			
CHECKED	RA	06/18/07	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-4059-006	B
			SCALE	N:S		SHEET 1 OF 3

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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	RA



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X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE	TITLE			REV.
DRAWN	PRB	06/13/07	MECHANICAL OUTLINE DRAWING MSN-32DT-05-DEC-MP OPTIONS: 100M20, PM10			
CHECKED	RA	06/18/07	SIZE	FSCM NO.	DWG NO.	
ISSUED			A	60483	100-4059-006	B
			SCALE	N:S	SHEET	2 OF 3

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	06/19/07	RA
	A	CHNG. CONN. SPACING, DEL. SIZE GOAL	06/15/07	RA
	B	SEE ECR# 07-122 (ADDED LOGIC TABLE)	9/30/07	RA

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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X.XX ±0.020
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APPROVALS		DATE	TITLE			
DRAWN <i>PRB</i>		06/19/07	MECHANICAL OUTLINE DRAWING MSN-32DT-05-DEC-MP OPTIONS: 100M20, PM10			
CHECKED <i>RA</i>		06/18/07	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-4059-006	B
			SCALE N:S			SHEET 3 OF 3