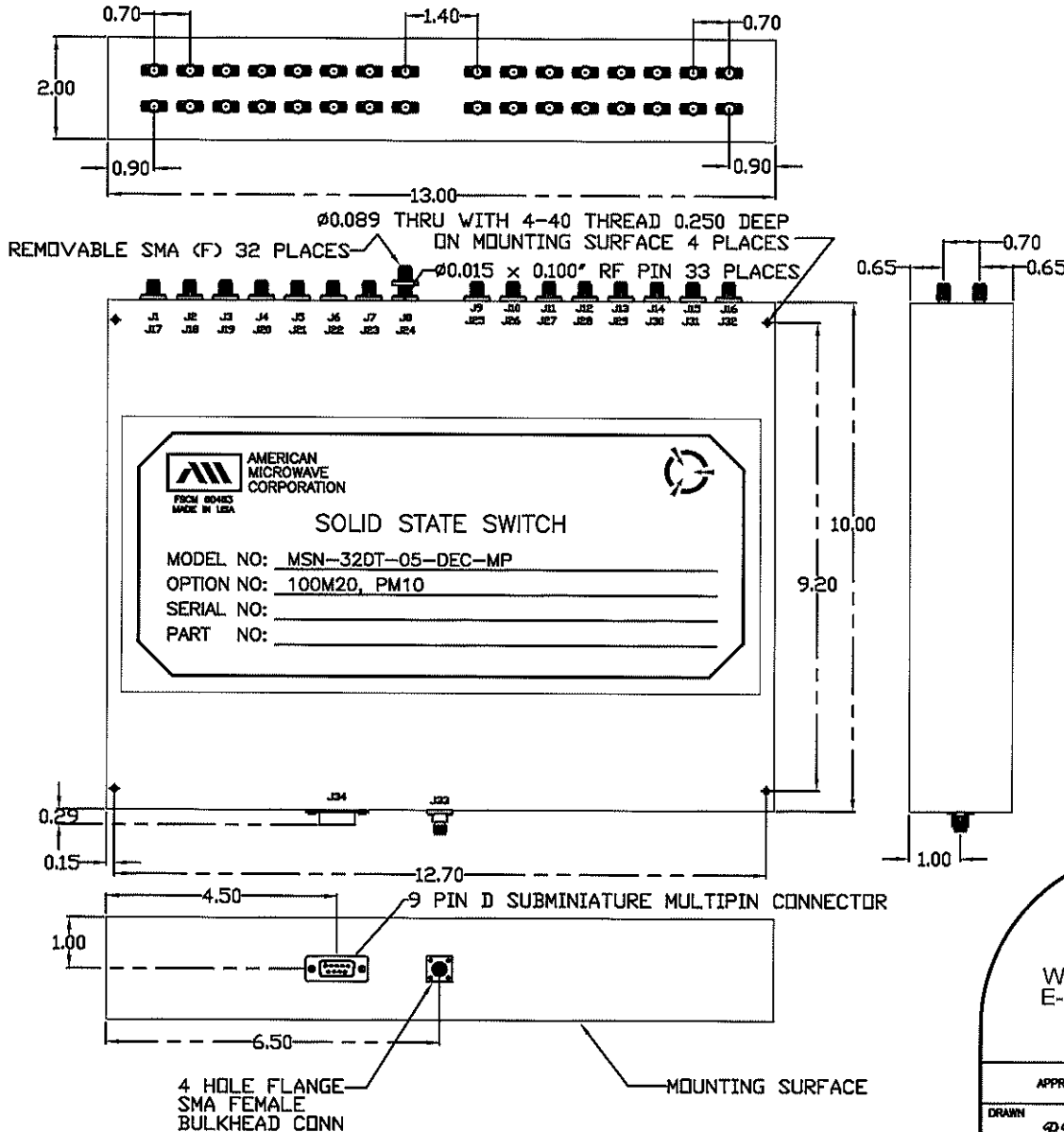


DESCRIPTION

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 | RA |



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

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

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 ISO 9001:2000 CERTIFIED



| 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.

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

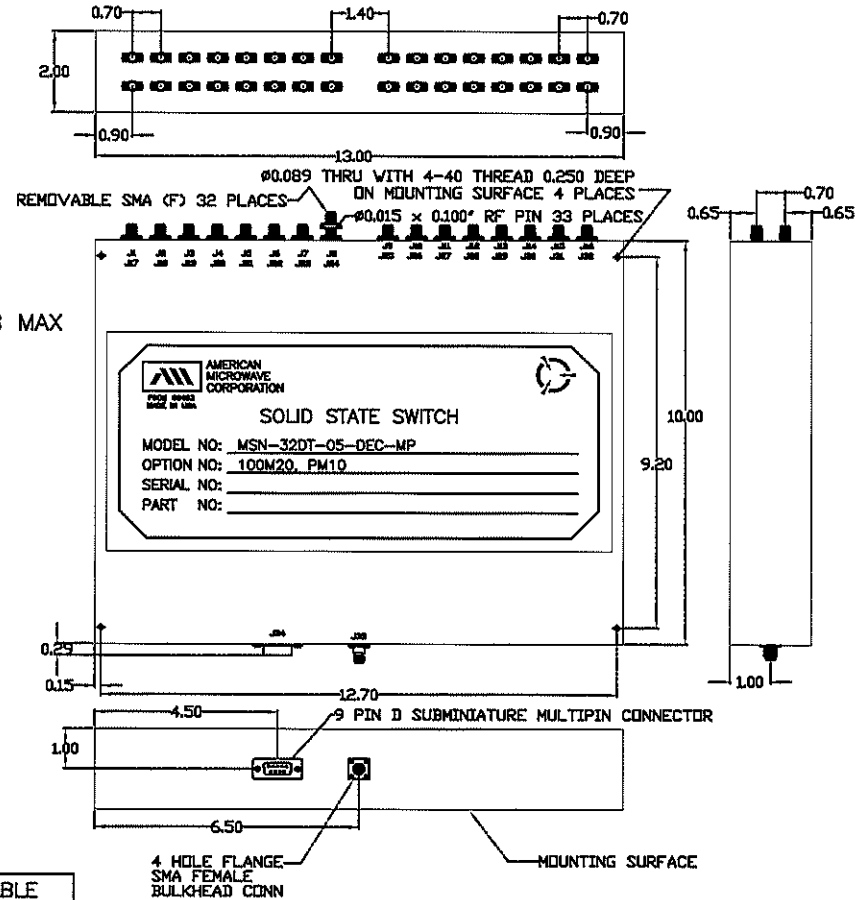
POWER/LOGIC CONNECTIONS: ...DE-9P, SUB-MINIATURE D

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 |

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| 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 |

DESCRIPTION

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| 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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| 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 |