



TEST REPORT
ON
17 TO 18 GHz
SINGLE POLE TWO THROW
ABSORPTIVE / NON-REFLECTIVE SWITCH MODULE

AMC MODEL No:
MSN-2DT-05-STANDARD
OPTION 1718, 12X, LVT

Serial Numbers: 2MS909687 THRU 2MS909689

**DESIGNED
BY
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**REPORTED
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October 26, 2004

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ISO9001 : 2000 CERTIFIED

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SINGLE POLE TWO THROW ABSORPTIVE / NON-REFLECTIVE SWITCH MODULE AMC MODEL No: MSN-2DT-05-STANDARD OPTION 1718, 12X, LVT

FEATURES:

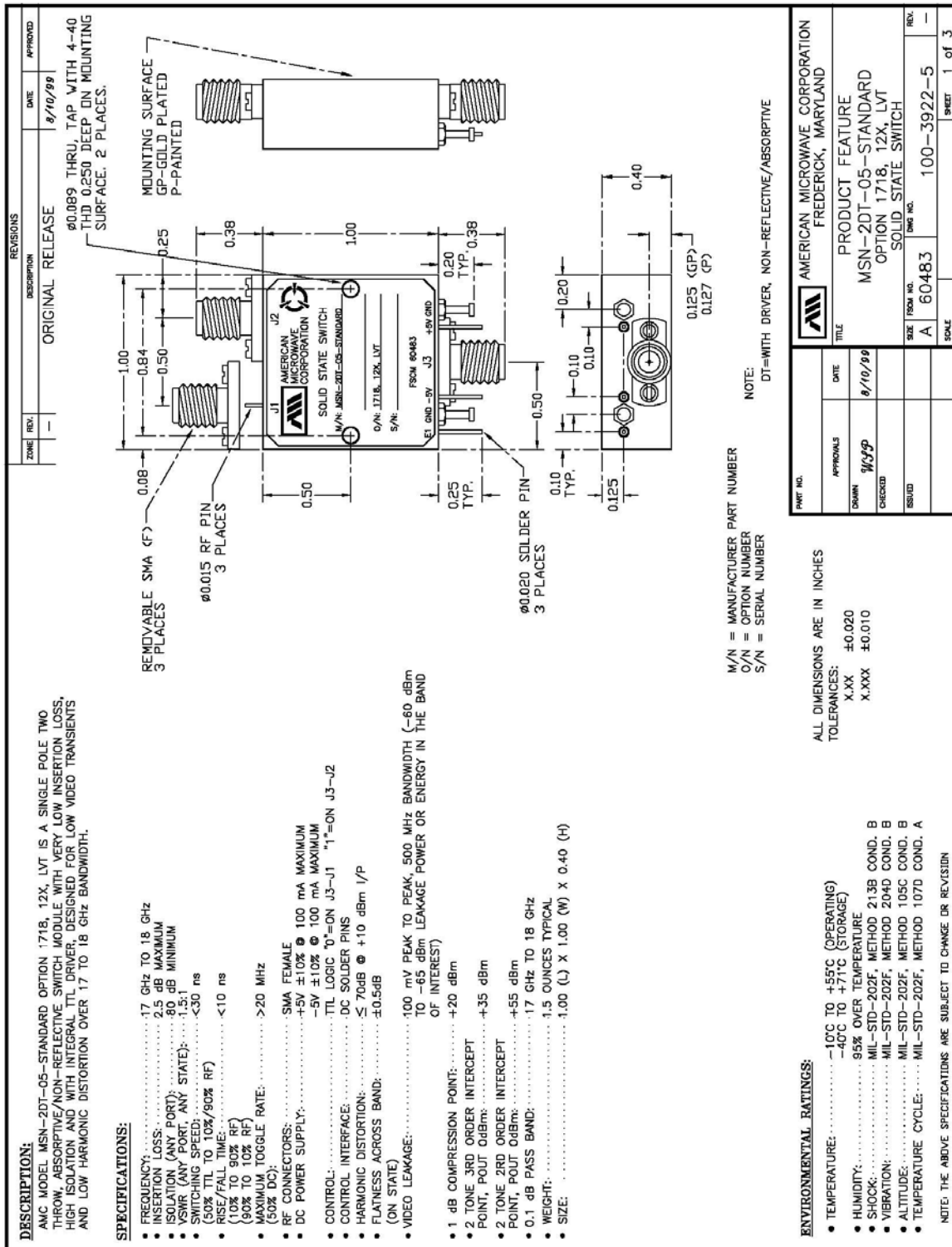
- **LOW INSERTION LOSS**
- **HIGH ISOLATION**
- **LOW VIDEO TRANSIENTS**
- **LOW HARMONIC DISTORTION**

SPECIFICATIONS:

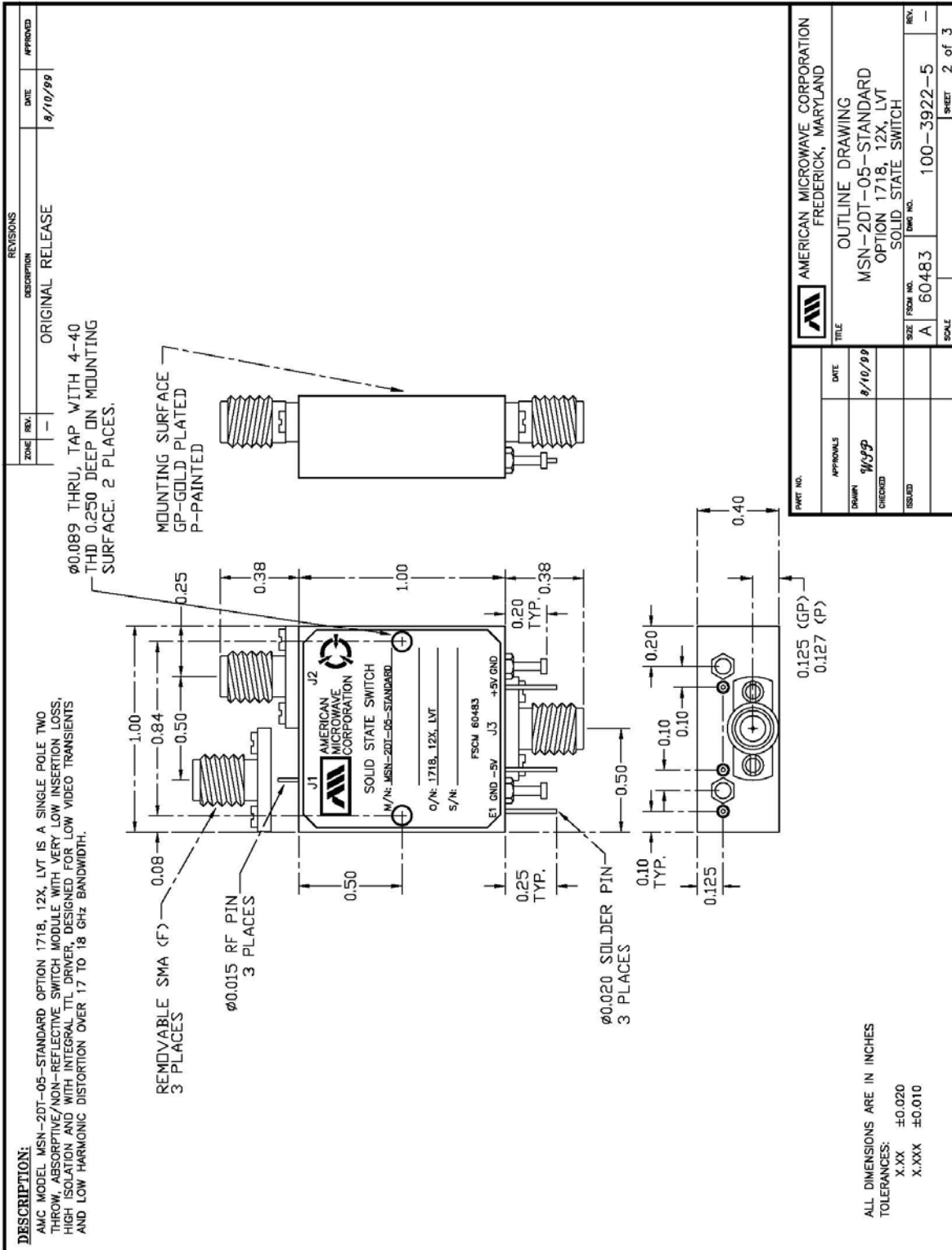
- FREQUENCY : 17 TO 18 GHz
- INSERTION LOSS : 2.5 dB MAXIMUM
- ISOLATION : 80 dB MINIMUM
- VSWR : 1.5:1
- SWITCHING SPEED : < 30 ns
- RISE / FALL TIME : < 10 ns
- MAXIMUM TOGGLE RATE : > 20 ns
- RF CONNECTORS : SMA FEMALE
- DC POWER SUPPLY : +5 V \pm 10% @ 100 mA MAXIMUM
-5 V \pm 10% @ 100 mA MAXIMUM
- CONTROL : TTL LOGIC "0"=ON J3-J1, "1"=ON J3-J2
- CONTROL INTERFACE : DC SOLDER PINS
- HARMONIC DISTORTION : \leq 70 dB @ +10 dBm I/P
- FLATNESS ACROSS BAND (ON STATE) : \pm 0.5 dB
- VIDEO LEAKAGE : 100 mV PEAK TO PEAK, 500 MHz BANDWIDTH (-60 dBm TO -65 dBm LEAKAGE POWER OR ENERGY IN THE BAND OF INTEREST)
- 1 dB COMPRESSION POINT : +20 dBm
- 2 TONE 3RD ORDER INTERCEPT POINT, P_{OUT} 0dBm : +35 dBm
- 2 TONE 2ND ORDER INTERCEPT POINT, P_{OUT} 0dBm : +55 dBm
- 0.1 dB PASS BAND : 17 GHz TO 18 GHz
- 1 dB COMPRESSION POINT : +20 dBm



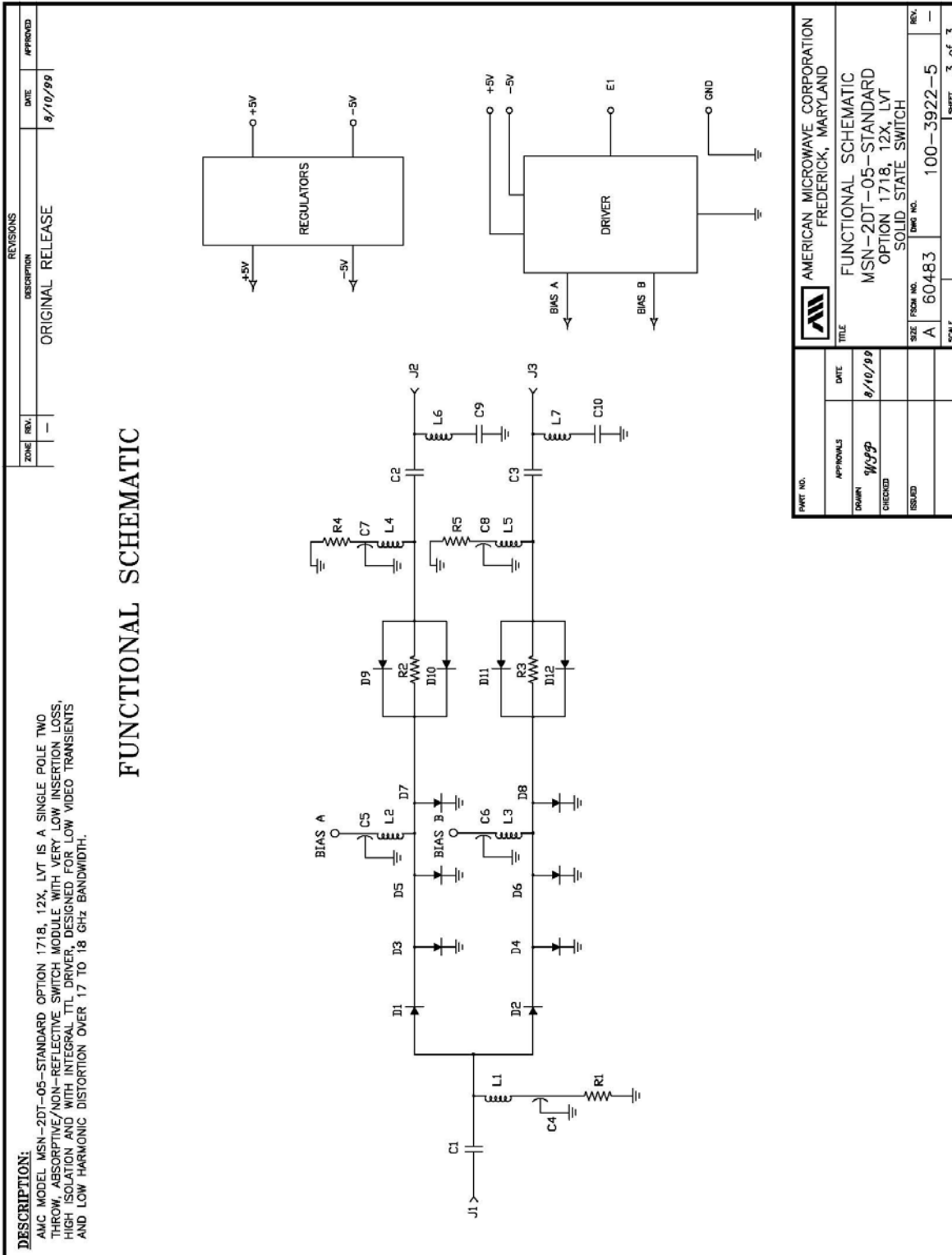
PRODUCT FEATURE



OUTLINE DRAWING



FUNCTIONAL SCHEMATIC



FINAL TEST DATA

FINAL TEST DATA SHEETS

FOR

AMC MODEL NUMBER

MSN-2DT-05-STANDARD
OPTION 1718, 12X, LVT

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