

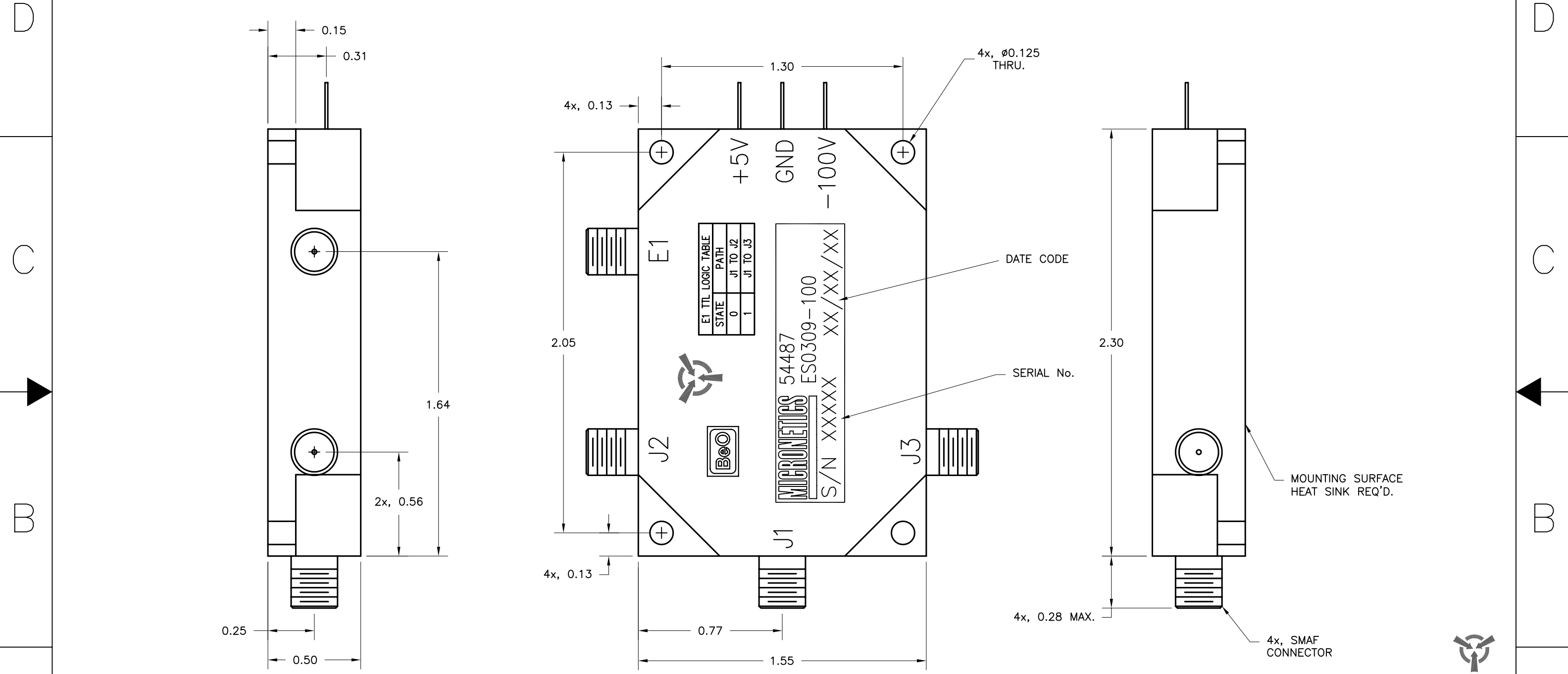
MICRONETICS, INC. 26 Hampshire Drive Hudson, NH 03051	Title: Product Specification Sheet MODEL NO. ES0309-100 SPDT, 100 W CW	Doc. No. PS-ES0309-100 Rev: 3
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ECO No.	Rev.	Description of Change	Date	Eng	Mfg	QA
	3	Engineering Release	9/19/08	AM		

PARAMETER	SPEC LIMITS						
1.0 High Power Input Specifications							
1.1 Frequency Range	0.1 to 1 GHz						
1.2 Power, CW (Maximum)	100 Watts						
2.0 Microwave Switch Specifications							
2.1 Frequency Range	0.1 to 1 GHz						
2.2 Isolation (Minimum)	50 dB						
2.3 Insertion Loss (Maximum)	1.0 dB						
2.4 VSWR (Maximum)	1.3:1						
2.5 RF Switching Speed (Maximum)	750 ns						
2.6 Control Switching Freq. (Maximum)	100 kHz						
3.0 General Specifications							
3.1 Connectors							
3.1.1 RF	SMA-F						
3.1.2 Bias/Control	Solder Pins						
3.2 Control							
3.2.1 Logic	TTL						
3.2.2 State Table							
	<table border="0"> <tr> <td data-bbox="418 1089 548 1121"><u>TTL CNTL</u></td> <td data-bbox="607 1089 711 1121"><u>RF Path</u></td> </tr> <tr> <td data-bbox="418 1121 548 1152">" 0 "</td> <td data-bbox="607 1121 711 1152">J1 to J2</td> </tr> <tr> <td data-bbox="418 1152 548 1184">" 1 "</td> <td data-bbox="607 1152 711 1184">J1 to J3</td> </tr> </table>	<u>TTL CNTL</u>	<u>RF Path</u>	" 0 "	J1 to J2	" 1 "	J1 to J3
<u>TTL CNTL</u>	<u>RF Path</u>						
" 0 "	J1 to J2						
" 1 "	J1 to J3						
3.3 DC Power Requirements							
3.3.1 Positive Supply	+5 +/-2% Vdc						
3.3.2 Positive Supply Current (Max)	150 mA						
3.3.3 Negative Supply Voltage	-100 +/-2% Vdc						
3.3.4 Negative Supply Current (Max)	150 mA						
3.4 Environmental Requirements							
3.4.1 Temperature							
3.4.1.1 Operating	-55 to +85° C						
3.4.1.2 Storage	-55 to +125° C						
3.4.2 Cooling:	Conduction cooling through surface of switch body						
3.5 Dimensions	Refer to outline drawing						

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REVISIONS					
ZONE	REV.	ECO NO.	DESCRIPTION	DATE	APPROVED
	1		ENGINEERING RELEASE		ENG. QC. MFG.



NOTES:
 1. MATERIAL: ALUMINUM 6061-T6
 2. FINISH: FINISH: ELECTROLESS NICKEL PER MIL-C-26074E, CLASS 1, 200-400 MICRO INCHES, GOLD PER MIL-G-45204, TYPE III, GRADE A CLASS 0.99.9%

UNLESS OTHERWISE SPECIFIED	DRAWN BY JWT	DATE 3/14/07	MICRONETICS, INC. 26 HAMPSHIRE DRIVE * HUDSON, N.H. 03051 TEL.: (603) 883-2900 * FAX: (603) 882-8987	
DIMENSIONS ARE IN INCHES TOLERANCES ON FINISH: $\sqrt{\text{V}}$ ANGLES: $\pm 1/2$ FRACTIONS: $\pm 1/64$ 4 PLACE DECIMALS: ± 0.0005 3 PLACE DECIMALS: ± 0.005 2 PLACE DECIMALS: ± 0.01	CHECKED BY	DATE	TITLE OUTLINE DRAWING	
COMMERCIAL PUBLISHED TOLERANCES SHALL APPLY TO TUBING, BAR, PLATE ETC. ALL THREADS TO BE CLASS 2A OR 2B. PLATED PARTS MUST FIT GAUGES AND MEET SPECIFIED TOLERANCES AFTER PLATING.	ENGINEER	DATE	SIZE B	FSCM NO. 54487
CAUTION UNLESS THIS DRAWING BEARS AUTHORIZED SIGNED APPROVAL(S) IT IS PRELIMINARY AND IS NOT TO BE USED FOR MANUFACTURING PURPOSES.	THIS DRAWING CONTAINS MATERIAL PROPRIETARY TO MICRONETICS		DWG NO. OD-ES0309-100	
	THIRD ANGLE PROJECTION		SCALE 1 TO 1	SHEET 1 OF 1
	DO NOT SCALE DRAWING			

4 3 2 1