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| MICRONETICS, INC. 26 Hampshire Drive Hudson, NH 03051 | Title: Product Specification Sheet ES0074-1; Switch, SPDT | Doc. No. PS-ES0074-1 Rev: 5 |
|--|---|--|

| ECO No. | Rev. | Description of Change | Date | Eng | Mfg | QA |
|---------|------|--|------|-----|-----|----|
| | 5 | ENGINEERING RELEASE; CHANGED SWITCHING SPEED FROM 2 uSec TO 700 uSec | | | | |

PARAMETER

SPEC LIMITS

1.0 High Power Input Specifications

| | | |
|-----|--------------------------|------------------|
| 1.1 | Frequency Range | 1025 to 1035 MHz |
| 1.2 | Power, Peak (Maximum) | 5000 Watts |
| 1.3 | Power, Average (Maximum) | 50 Watts |
| 1.4 | Pulse Width (Maximum) | 1.0 uSec |
| 1.5 | Duty Cycle (Maximum) | 1.0 % |

2.0 Microwave Switch Specifications

| | | |
|-----|-------------------------------|------------------|
| 2.1 | Frequency Range | 1025 to 1035 MHz |
| 2.2 | Isolation (Minimum) | 30 dB |
| 2.3 | Insertion Loss (Maximum) | 1.3 dB |
| 2.4 | VSWR (Maximum) | 1.5:1 |
| 2.5 | RF Switching Speed (Maximum) | 700 ns |
| 2.6 | Switching Frequency (Maximum) | 1.0 kHz |

3.0 General Specifications

| | | |
|-------|--------------|---------|
| 3.1 | Connectors | |
| 3.1.1 | RF | SMA-F |
| 3.1.2 | Control/Bias | DSUB-9P |
| 3.2 | Control | |
| 3.2.1 | Logic | TTL |
| 3.2.2 | State Table | |

| <u>State</u> | <u>RF Path</u> |
|--------------|----------------|
| 0 | J1 – J2 |
| 1 | J1 – J3 |

3.3 DC Power Requirements

| | | |
|-------|-------------------------------|--------------|
| 3.3.1 | Positive Supply | +15+/-5% Vdc |
| 3.3.2 | Positive Supply Current (Max) | 500 mA |

3.4 Environmental Requirements

| | | |
|---------|-------------|--------------|
| 3.4.1 | Temperature | |
| 3.4.1.1 | Operating | -40 to +55°C |
| 3.4.1.2 | Storage | -40 to +70°C |

3.4.2 Cooling: Conduction cooling through surface of switch body

| | | |
|-------|------------|-----------------------------------|
| 3.4.3 | Altitude | 35000 Feet |
| 3.5 | Dimensions | Refer to outline drawing ES0074-1 |
| 3.6 | Weight | 750 Grams (max) |