



**DowKey® Microwave**  
CORPORATION

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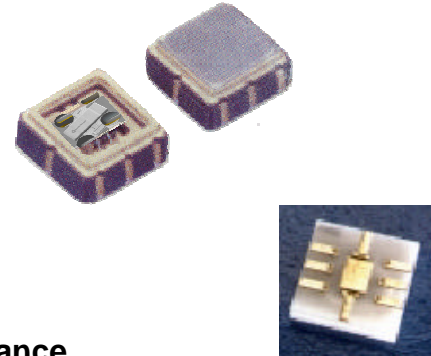


**PRELIMINARY**

**SPDT MEMS SMT SWITCH DC - 6.0 GHz**

Based on MEMS technology, the 408 Series of electromechanical switches provides you

- with · *miniature,*
- *high speed,*
- *low insertion loss,*
- *high isolation,*
- *long life,*
- *surface mount*



microwave switches with DC to 6.0 GHz+ performance.

Using photolithographic, "surface build-up" technologies on GaAs and high resistivity silicon substrates, we can now provide miniature, high performance switches.

Dow-Key anticipates considerable optimization within our product line to address specific ATE, Hi-Rel, and wireless communication applications. We will offer SPST and Transfer configurations in the near future.

<b>P/N: 408LD-7119</b>	<b>Low Dielectric Package</b>
<b>P/N: 408H-7119</b>	<b>Hermetic Package</b>
<b>P/N: 401M-710803A</b>	<b>SPDT Connectorized Module See Fig 1</b>

<b>RF Characteristics - DC to 6.0 GHz</b>	
<b>Insertion Loss:</b>	<b>0.3 dB (max)</b>
<b>Isolation:</b>	<b>40 dB (min)</b>
<b>RF Power:</b>	<b>2 Watts (max)</b>
<b>VSWR:</b>	<b>1.25:1 (max)</b>
<b>Intermodulation:</b>	<b>80 dBc (signal strength below the carrier)</b>
<b>Operation:</b>	<b>Pulse Latching with TTL Control for the connectorized module. 408 devices require a +6 V, 60 μs pulse to set to Pos 1 and -6 V, 60 μs pulse to set to Pos 2. In future, 408 devices will incorporate TTL control.</b>
<b>Switching Speed:</b>	<b>100 ms (max), 50 ms typical</b>
<b>Op Voltage:</b>	<b>6 to 8 Vdc depending on driver configuration</b>
<b>Life cycles:</b>	<b>10 million (min) Typical 100 million +</b>
<b>Temp. Range:</b>	<b>-40 °C to +85 °C</b>

