



**MITI-7L**

Long life &gt; High Reliability &gt; 7mm &gt; Sub-miniature

**Electrical Ratings**

Contact Rating <sup>1</sup>	-	Watt - max.	10
Voltage <sup>3</sup>	Switching <sup>2</sup>	Vdc - max.	170
	Breakdown <sup>4</sup>	Vac - max. Vdc - min.	120 200
Current <sup>3</sup>	Switching <sup>2</sup>	Adc - max.	0.25
		Aac - max.	0.18
	Carry	Adc - max. Aac rms - max	0.30 0.21
Resistance	Contact, Initial	Ω - max.	0.15
	Insulation	Ω - min.	10 <sup>11</sup>
Capacitance	Contact	pF - typ.	0.65
Temperature	Operating Storage <sup>5</sup>	°C	-40 to +125
		°C	-65 to +125

**Notes:**

- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
- Breakdown Voltage - per MIL-STD-202, Method 301.
- Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.

**Product Characteristics**

Operating Characteristics		
Operate Time <sup>1</sup>	-	0.4 ms - max. (with bounce)
Release Time <sup>1</sup>	-	0.5 ms - max.
Shock <sup>2</sup>	11ms 1/2 sine wave	100 G - max.
Vibration <sup>2</sup>	50–2000 Hertz	30 G - max.
Resonant Frequency	-	12.7 kHz - typ.
Magnetic Characteristics		
Pull-In Range <sup>3</sup>	Ampere Turns	6–25
Rating Sensitivity <sup>4</sup>	Ampere Turns	11
Test Coil	-	L4991

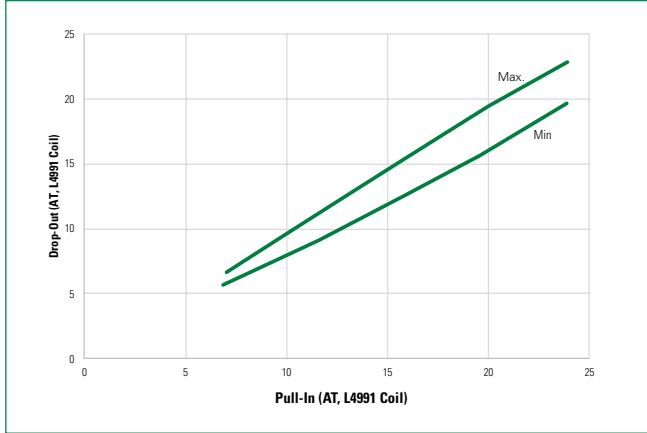
**Notes:**

- Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil I).
- Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
- Pull-In Range - Contact Littelfuse for narrower AT ranges available.
- Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
- Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

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### Drop-Out vs. Pull-In Chart



**Note:** The chart represents the range of Drop-Out, minimum to maximum for a given Pull-In value. This plot represents before modification.

### Part Numbering System

**MITI-7L-6-10**  
**Standard Lead Series** ——— **AT Range**  
 6–10 AT  
 10–15 AT  
 15–20 AT  
 20–25 AT  
**Example:** 6-10 AT product is MITI-7L-6-10

**MISM-7 R - 6-10**  
**Surface Mount Series** ——— **AT Range**  
 6–10 AT  
 10–15 AT  
 15–20 AT  
**Packaging**  
 R = Tape and Reel  
 B = Bulk  
**Form**  
 Blank = 13.72mm  
 5 = 12.60mm  
**Example:** 6-10 AT product is MISM-7R-6-10

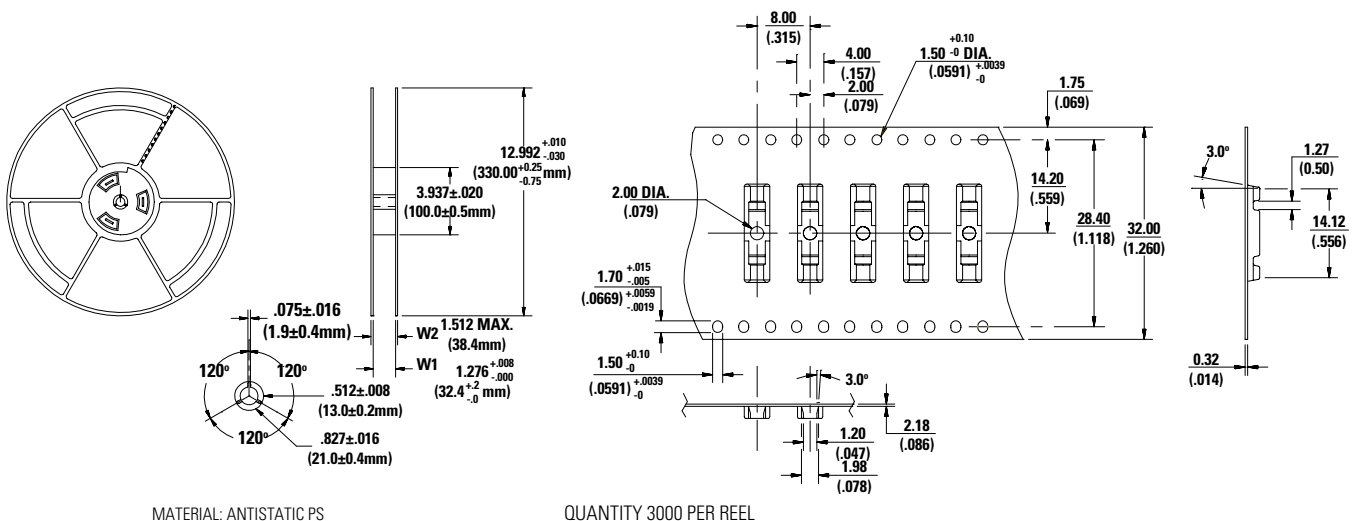
### Life Test

Switching Voltage	Life Cycles
12 Vdc, 8.3 mA, 100 Hz	50 M Cycles B10
5 Vdc, 20 mA, 100 Hz	100 M Cycles Min.
5 Vdc, 10 mA, 100 Hz	220 M Cycles B10

### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	1000	N/A	N/A
Tape and Reel	EIA-RS-481-1	3000	R	32mm

### Tape and Reel



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