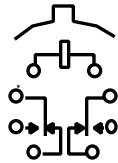


# MA · MAD · MADD · MAT

## MA

**STANDARD TO-5  
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO  
MIL-R-39016/9**



TERMINAL VIEW

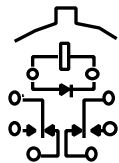
**FEATURES**

- Hermetically sealed
- High shock & vibration ratings
- Spreader pads
- Excellent RF switching

## MAD

**STANDARD TO-5  
DIODE SUPPRESSED  
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO  
MIL-R-39016/15**



TERMINAL VIEW

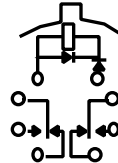
**FEATURES**

- Suppression diode
- Hermetically sealed
- High shock & vibration ratings
- Spreader pads
- Excellent RF switching

## MADD

**STANDARD TO-5 DIODE  
SUPPRESSED/PROTECTED  
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO  
MIL-R-39016/20**



TERMINAL VIEW

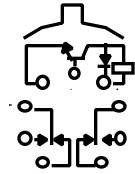
**FEATURES**

- Suppression & protection diodes
- Hermetically sealed
- High shock & vibration ratings
- Spreader pads
- Excellent RF switching

## MAT

**STANDARD TO-5 DIODE  
SUPPRESSED/TRANSISTOR  
DRIVEN HIGH-PERFORMANCE  
RELAY**

**QUALIFIED TO  
MIL-R-28776/1**



TERMINAL VIEW

**FEATURES**

- Transistor driver & suppression diode
- Hermetically sealed
- High shock & vibration ratings
- Spreader pads
- Excellent RF switching

**ELECTRICAL CHARACTERISTICS**

**CONTACT ARRANGEMENT**

2 Form C (DPDT)

**CONTACT MATERIAL**

Stationary:  
Gold/platinum/palladium/silver alloy (gold plated)

Moveable:  
Gold/platinum/palladium/silver alloy (gold plated)

**CONTACT RESISTANCE**

Before Life: 100 milliohms max. (measured @ 10 mA @ 6 Vdc)

After Life: 200 milliohms max. (measured @ 1 A @ 28 Vdc)

**MECHANICAL LIFE EXPECTANCY**

1 million operations

**COIL VOLTAGE**

5 to 30 Vdc

**COIL POWER**

675 mW max. @ 25°C

**DUTY CYCLE**

Continuous

**PICK-UP VOLTAGE**

Approximately 50% of nominal coil voltage

**PICK-UP SENSITIVITY**

130 mW max. @ 25°C

**CONTACT RATINGS**

CONTACT LOAD	TYPE	OPERATIONS MIN.
1.0 A @ 28 Vdc	Resistive	100,000
250 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive (case not grounded)	100,000
100 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000
0.2 A @ 28 Vdc	Inductive (0.32 Henry)	100,000
0.1 A @ 28 Vdc	Lamp	100,000
30 µA @ 50 mVdc	Low Level	1,000,000
0.1 A @ 28 Vdc	Intermediate Current	50,000

