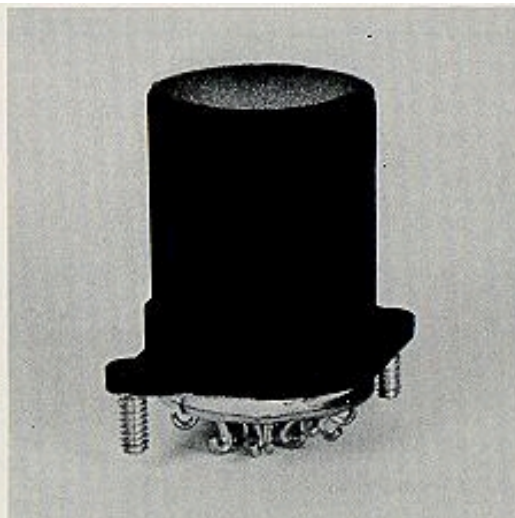


**Ratings**

4PDT (4 form C) contacts, 5 amp @ 29VDC, 2 amp @ 115VAC

**Description**

Miniature 4PDT relay  
 5 amp contact rating  
 AC or DC coils  
 50g operational shock  
 Temperature range:  
 MH: -55°C to +85°C  
 MHB, MHJ: -65°C to +125°C  
 Vibration level:  
 MH, MHB: up to 1000Hz at 15g  
 MHJ: up to 2000Hz at 20g  
 Weight: 3 ounces maximum  
 Enclosure: Hermetically sealed  
 Terminals: Plug-in, printed circuit, or hook-type solder terminals



**Performance Data:**

Operate Time: 10ms maximum  
 Release Time:  
 DC coil—5ms maximum  
 AC coil—25ms maximum  
 Initial Contact Resistance: 0.05 ohms max.  
 Insulation Resistance: 1000 megohms min.  
 Contact Rating:

Non-inductive:

Low level up to 5 amp @ 29VDC  
 Low level up to 2 amp @ 115VAC, 60 to 400Hz (10, case not grounded)  
 0.3 amp @ 115VAC, 60 to 400Hz (10, case grounded)

Inductive:

1 amp @ 29VDC  
 1 amp @ 115VAC, 60 to 400Hz (10, case not grounded)  
 0.3 amp @ 115VAC, 60 to 400Hz (10, case grounded)

Higher AC ratings available—consult factory.

**Dielectric strength**

1000V rms at sea level  
 500V rms at 70,000 feet  
 350V rms at 80,000 feet

**Vibration:**

MH, MHB: 5-34Hz at 0.25 inch double amplitude, 34-1000Hz at 15g  
 MHJ: 5-28Hz at 0.5 inch double amplitude, 28-2000Hz at 20g

Shock: 50g operational—100g mechanical

**Ambient Temperature:**

MH: -55°C to +85°C  
 MHB, MHJ: -65°C to +125°C

**Approvals**

MIL-R-5757, as applicable

**Ordering Information**

MH  I  II  III

- I. Mounting and terminal variation
- II. 12A or 12D (4PDT)
- III. Coil voltage or mADC

Example: MHB-12D-6VDC calls for relay with temperature range from -65°C to +125°C, vibration level up to 1000Hz at 15g—standard mounting with hook pin terminals—4PDT—6 volts DC.

**Type Designation and Coil Data**

Relay Type	DC Nominal Coil Data			Maximum Pick-up Voltage	
	Volts	Amperes	Ohms*	@ +25°C	@ +85°C
MH-12D-6VDC	6	.400	16	3.5	4.0
MH-12D-12VDC	12	.200	60	6.5	8.5
MH-12D-26.5VDC	26.5	.089	300	14.5	18.0
MH-12D-48VDC	48	.048	1000	28.0	33.0
MH-12D-115VDC	115	.023	5000	59.0	78.0
Temperature rise at rated voltage: 55°C above 25°C; 45°C above 85°C					
				@ +25°C	@ +125°C
MHB-(MHJ)-12D-6VDC	6	.461	13	3.2	4.0
MHB-(MHJ)-12D-12VDC	12	.240	50	6.2	8.5
MHB-(MHJ)-12D-26.5VDC	26.5	.106	250	13.0	18.0
MHB-(MHJ)-12D-48VDC	48	.060	800	26.0	33.0
MHB-(MHJ)-12D-115VDC	115	.023	5000	58.0	78.0
Temperature rises at rated voltage: 60°C above 25°C; 35°C above 125°C					

**Current Adjusted Relays**

Relay Type	Maximum Pick-up mA	Ohms*	Nominal Operate Current
MHB-(MHJ)-12D-12mADC	12.0	5,000	18.0mA
MHB-(MHJ)-12D-9mADC	9.0	10,000	13.5mA
MHB-(MHJ)-12D-7.5mADC	7.5	16,000	11.25mA

**AC Coil Relay (60 to 400Hz with self-contained diodes)**

Relay Type	Nominal Voltage	Coil Resistance Ohms*	Frequency Range
MHJ-12A-115VAC	115	2 coils** each 2765	45 to 420Hz

\*DC coil resistance—standard tolerance ±10%. Other values of resistance can be supplied.  
 \*\*Diodes used in AC relays rated at 600 P. I. V. minimum. Diodes with higher ratings can be supplied. Consult factory.