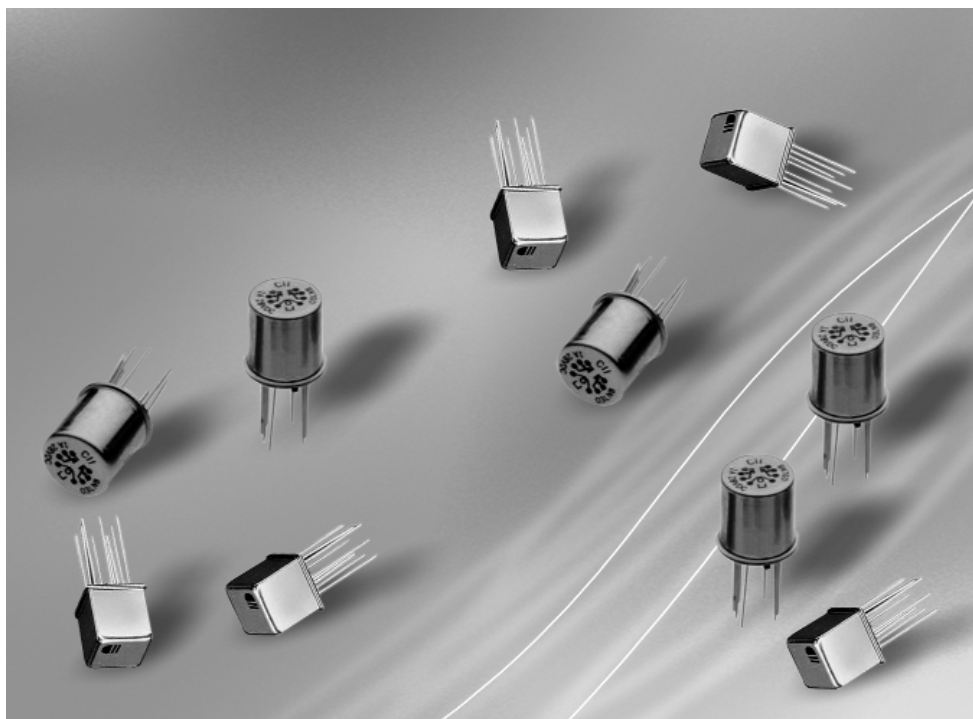


Product Facts

- Excellent signal isolation, stable insertion loss and low VSWR.
- Provide repeatable RF performance at frequencies up to the 3 GHz. level (MW3/MW3HP), 4 GHz. level (MW4/MW4HP) & 6 GHz. level (MW6/MW6HP).
- Standard versions for applications ranging from wireless communications to precision high-speed test equipment.
- High performance (HP) versions for use under more demanding environmental conditions.
- Standard or sensitive (S) coils are offered in a range of DC input voltages.
- 2 Form C (DPDT) contacts rated low-level to 1 amp.
- Extended mechanical life expectancy of 10 million operations.
- Robust, hermetically sealed enclosure.



These CII relays provide microwave frequency switching in a hermetically sealed, subminiature package.

Both standard and high performance models are offered in 3 GHz., 4 GHz. and 6 GHz. types.

Standard models (MW3, MW4 and MW6) perform in temperature ranges from -55°C to +85°C and withstand 10G vibration and 30G shock.

High performance models (MW3HP, MW4HP and MW6HP) offer extended temperature ratings of -65°C to +125°C while providing 30G's vibration and 100G's shock (75G's for MW3) environmental ratings.

All are available with either standard or sensitive DC coils. Nominal coil power is 367-500mW (model dependent) for standard coils and 169-250mW for sensitive coils.

Signal isolation is 18dB at 6 GHz. (MW6/MW6HP), 18dB at 4 GHz. (MW4/MW4HP), and 22dB at 3 GHz. (MW3/MW3HP).

Insertion loss is 0.38dB for MW6/MW6HP, 0.27dB for MW4/MW4HP, and 0.36dB for MW3/MW3HP.

VSWR is a low 1.30:1 @ 6GHz. for MW6/MW6HP, 1.36:1 @ 4GHz. for MW4/MW4HP, and 1.24:1 @ 3GHz. for MW3/MW3HP.

MW3 & MW3HP Models 3 GHz. Switching

Electrical Characteristics

Contact Arrangement:

2 Form C (DPDT)

Contact Resistance:

Before life: 100 milliohms, max
(measured @ 10mA @ 6VDC.)

After life: 200 milliohms, max
(measured @ 1A @ 28VDC.)

Mechanical Life Expectancy:

10 million operations

Coil Voltages:

5, 12, 18 & 26.5VDC (MW3)

5, 6, 9, 12, 18 & 26.5VDC (MW3HP)

Coil Power (mw max @25°C):

MW3	MW3S	MW3HP	MW3HPS
675	565	673	563

Duty Cycle:

Continuous

Pick-up Voltage:

MW3: Approx 70% of nominal.

MW3HP: Approx 50% of nominal.

Pick-up Sensitivity (mw max @25°C):

MW3	MW3S	MW3HP	MW3HPS
180	90	146	68

Operating Characteristics

Timing:

Operate Time (ms max.)

MW3	MW3S	MW3HP	MW3HPS
4.0	6.0	2.0	4.0

Release Time (ms max.)

MW3	MW3S	MW3HP	MW3HPS
3.0	3.0	1.5	2.0

Bounce Time (ms max.)

MW3	MW3S	MW3HP	MW3HPS
-	-	1.5	1.5

Dielectric Withstanding Voltage:

Between Open Contacts,

Between Adjacent Contacts and

Between Contacts and Coil:

MW3 types: 350Vrms, 60 Hz.

MW3HP types: 500Vrms, 60 Hz.

Insulation Resistance:

1,000 megohms @ 500VDC.

Environmental Characteristics

Temperature Range:

MW3 types: -55°C to +85°C.

MW3HP types: -65°C to +125°C.

Weight:

MW3, MW3HP: 0.09 oz. (2.55 g)

MW3S, MW3HPS: 0.12 oz. (3.40 g).

Vibration Resistance:

MW3 types: 10 G's, 10-500 Hz.

MW3HP types: 30 G's, 10-3,000 Hz

Shock Resistance:

MW3 types: 30 G's, 6 ± 1 ms.

MW3HP types: 75 G's, 6 ± 1 ms.

Contact Ratings

Contact Load	Type	Operations (min.)
1.0A @ 28VDC	Resistive	100,000
200mA @ 28VDC (300mH)*	Inductive	100,000
30µA @ 50mVDC	Low Level	10,000,000

* The inductive rating is only applicable to high performance models (MW3HP and MW3HPS).

Coil Data

MW3 Models

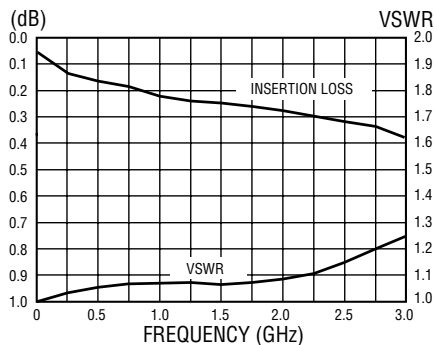
Nominal Coil Voltage (VDC)	Coil Resistance In Ohms ±20% @ 25°C	Pickup Voltage VDC (Max.) @ 25°C	Nominal Coil Power (mw) @ 25°C	Maximum Coil Voltage	Coil Designator
Standard Coil					
5.0	50	3.6	500	5.8	5
12.0	390	8.4	369	16.0	12
18.0	880	13.0	368	24.0	18
26.5	1,560	17.0	450	32.0	26
Sensitive Coil					
5.0	100	3.5	250	7.5	5
12.0	850	9.0	169	20.0	12
18.0	1,600	13.5	203	30.0	18
26.5	3,300	18.0	213	40.0	26

MW3HP (High Performance) Models

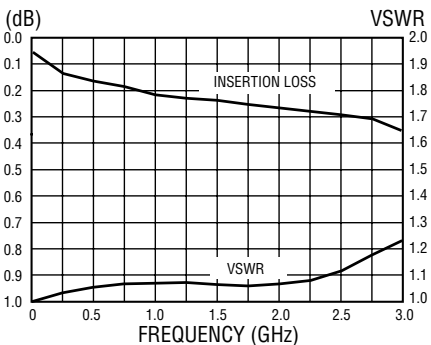
Nominal Coil Voltage (VDC)	Coil Res. in Ohms ±10% @ 25°C	Pickup V VDC (Max.) @25°C	Release V VDC (Max.) @25°C	Release V VDC (Min.) @25°C	Nominal Coil Power (mw) @25°C	Maximum Coil Voltage	Coil Designator
Standard Coil							
5.0	50	2.7	1.4	0.22	500	5.8	5
6.0	98	3.5	2.0	0.28	367	8.0	6
9.0	220	5.3	3.0	0.54	368	12.0	9
12.0	390	7.0	4.0	0.63	369	16.0	12
18.0	880	10.5	6.0	0.91	368	24.0	18
26.5	1,560	14.2	8.0	1.37	450	32.0	26
Sensitive Coil							
5.0	100	2.6	1.4	0.23	250	7.5	5
6.0	200	3.4	2.0	0.28	180	10.0	6
9.0	400	4.85	3.0	0.55	203	15.0	9
12.0	850	7.0	4.0	0.64	169	20.0	12
18.0	1,600	9.8	6.0	0.92	203	30.0	18
26.5	3,300	14.0	8.0	1.4	213	40.0	26

**MW3 & MW3HP Models
3 GHz. Switching**

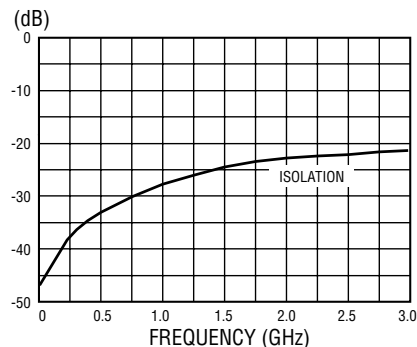
Insertion Loss & VSWR: NO Contacts



Insertion Loss & VSWR: NC Contacts



Isolation



Test Conditions

Test Board: 0.031" double sided copper clad, PTFE based laminate.

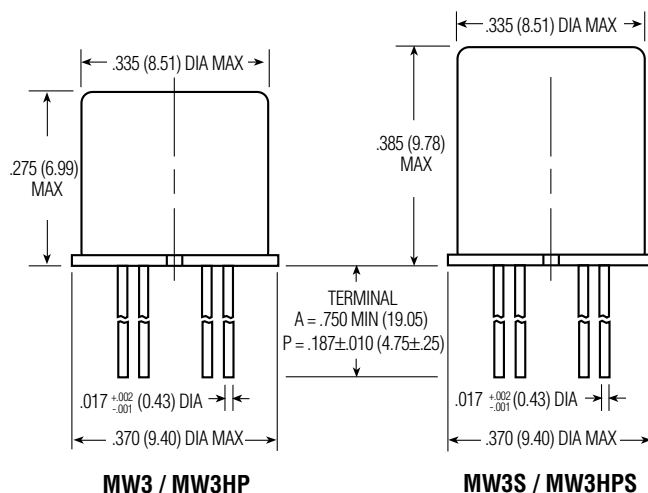
Connections: Relay header is soldered to ground plane. Relay terminals are soldered to through holes. SMA connectors are soldered to circuit traces.

Temperature: Room ambient.

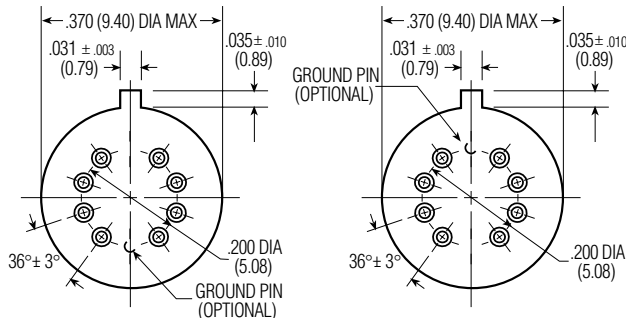
Signal Strength: 0 dBm.

Notes: 1. Unused terminals were terminated with 50 ohm impedance load. 2. All readings are typical.

Enclosures



Header



**Ground Pin
Position "G"**

**Ground Pin
Position "E"**

For other ground pin configurations consult factory.

Header and Terminal Finish:
Nickel plated on MW3 & MW3S.
Tin-lead plated on MW3HP & MW3HPS.

Part Numbering System

Typical Part Number

Series:

MW3 = 3 GHz. switching relay

MW3HP = High performance 3 GHz. switching relay

Coil Sensitivity:

Leave Blank = Standard Coil S = Sensitive Coil

Coil Designator:

5 = 5VDC 6 = 6VDC† 9 = 9VDC†

12 = 12VDC 18 = 18VDC 26 = 26.5VDC

† 6 and 9 volt coil only available on high performance models.

Terminal Length:

A = 0.750 in (19.05 mm)

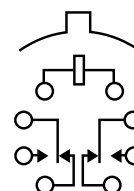
P = 0.187 ± 0.010 in (4.75 ± 0.25 mm)

Ground Pin Position (see header drawings above):

G = Opposite locating tab E = Near locating tab.

Consult factory for other ground pin configurations.

Wiring Diagram



Terminal View

MW4 & MW4HP Models 4 GHz. Switching

Electrical Characteristics

Contact Arrangement:

2 Form C (DPDT)

Contact Resistance:

Before life: 100 milliohms, max
(measured @ 10mA @ 6VDC.)

After life: 200 milliohms, max
(measured @ 1A @ 28VDC.)

Mechanical Life Expectancy:

10 million operations

Coil Voltages:

5, 12, 18 & 26.5VDC (MW4)

5, 6, 9, 12, 18 & 26.5VDC (MW4HP)

Coil Power (mw max @25°C):

MW4	MW4S	MW4HP	MW4HPS
675	565	673	563

Duty Cycle:

Continuous

Pick-up Voltage:

MW4: Approx 70% of nominal.

MW4HP: Approx 50% of nominal.

Pick-up Sensitivity (mw max @25°C):

MW4	MW4S	MW4HP	MW4HPS
180	90	123	68

Operating Characteristics

Timing:

Operate Time (ms max.)

MW4	MW4S	MW4HP	MW4HPS
4.0	6.0	2.0	4.0

Release Time (ms max.)

MW4	MW4S	MW4HP	MW4HPS
3.0	3.0	1.5	2.0

Bounce Time (ms max.)

MW4	MW4S	MW4HP	MW4HPS
—	—	1.5	1.5

Dielectric Withstanding Voltage:

Between Open Contacts,

Between Adjacent Contacts and

Between Contacts and Coil:

MW4 types: 350Vrms, 60 Hz.

MW4HP types: 500Vrms, 60 Hz.

Insulation Resistance:

1,000 megohms @ 500VDC.

Environmental Characteristics

Temperature Range:

MW4 types: -55°C to +85°C.

MW4HP types: -65°C to +125°C.

Weight:

MW4, MW4HP: 0.09 oz. (2.55 g)

MW4S, MW4HPS: 0.12 oz. (3.40 g).

Vibration Resistance:

MW4 types: 10 G's, 10-500 Hz.

MW4HP types: 30 G's, 10-3,000 Hz

Shock Resistance:

MW4 types: 30 G's, 6 ± 1 ms.

MW4HP types: 100 G's, 6 ± 1 ms.

Contact Ratings

Contact Load	Type	Operations (min.)
1.0A @ 28VDC	Resistive	100,000
200mA @ 28VDC (300mH)*	Inductive	100,000
30µA @ 50mVDC	Low Level	10,000,000

* The inductive rating is only applicable to high performance models (MW4HP and MW4HPS).

Coil Data

MW4 Models

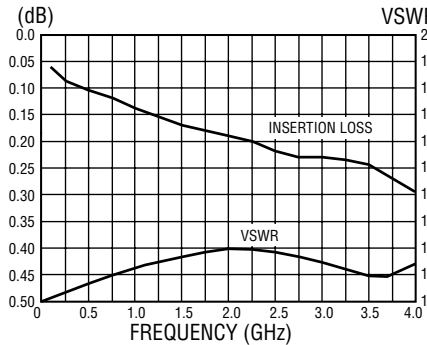
Nominal Coil Voltage (VDC)	Coil Resistance In Ohms ±20% @ 25°C	Pickup Voltage VDC (Max.) @ 25°C	Nominal Coil Power (mw) @ 25°C	Maximum Coil Voltage	Coil Designator
Standard Coil					
5.0	50	3.6	500	5.8	5
12.0	390	8.4	369	16.0	12
18.0	880	13.0	368	24.0	18
26.5	1,560	17.0	450	32.0	26
Sensitive Coil					
5.0	100	3.5	250	7.5	5
12.0	850	9.0	169	20.0	12
18.0	1,600	13.5	203	30.0	18
26.5	3,300	18.0	213	40.0	26

MW4HP (High Performance) Models

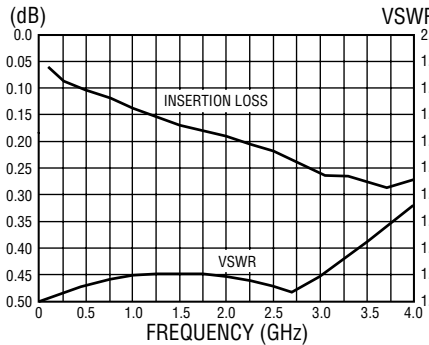
Nominal Coil Voltage (VDC)	Coil Res. in Ohms ±10% @ 25°C	Pickup V VDC (Max.) @25°C	Release V VDC (Max.) @25°C	Release V VDC (Min.) @25°C	Nominal Coil Power (mw) @25°C	Maximum Coil Voltage	Coil Designator
Standard Coil							
5.0	50	2.7	1.4	0.22	500	5.8	5
6.0	98	3.5	2.0	0.28	367	8.0	6
9.0	220	5.3	3.0	0.54	368	12.0	9
12.0	390	7.0	4.0	0.63	369	16.0	12
18.0	880	10.5	6.0	0.91	368	24.0	18
26.5	1,560	14.2	8.0	1.37	450	32.0	26
Sensitive Coil							
5.0	100	2.6	1.4	0.23	250	7.5	5
6.0	200	3.4	2.0	0.28	180	10.0	6
9.0	400	4.85	3.0	0.55	203	15.0	9
12.0	850	7.0	4.0	0.64	169	20.0	12
18.0	1,600	9.8	6.0	0.92	203	30.0	18
26.5	3,300	14.0	8.0	1.4	213	40.0	26

**MW4 & MW4HP Models
4 GHz. Switching**

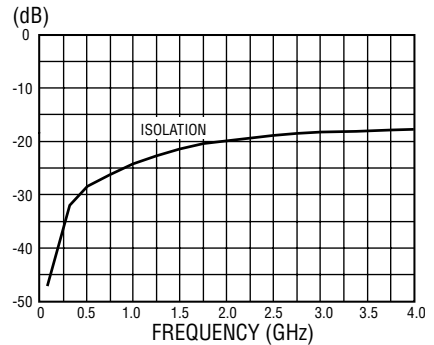
Insertion Loss & VSWR: NO Contacts



Insertion Loss & VSWR: NC Contacts



Isolation



Test Conditions

Test Board: 0.031" double sided copper clad, PTFE based laminate.

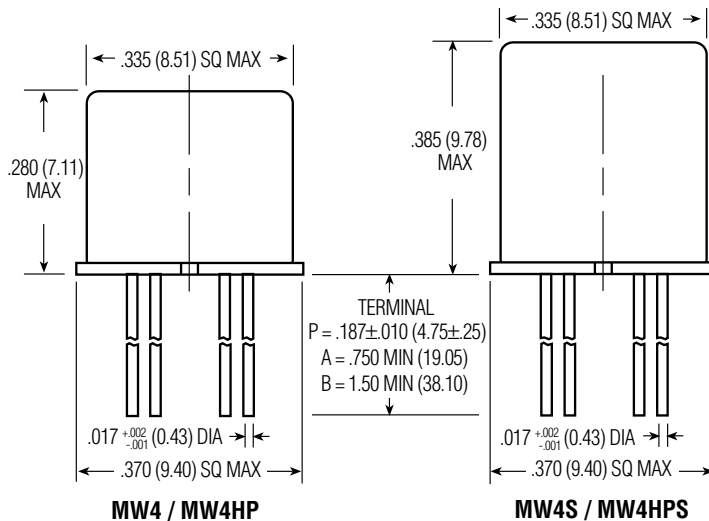
Connections: Relay header is soldered to ground plane. Relay terminals are soldered to through holes. SMA connectors are soldered to circuit traces.

Temperature: Room ambient.

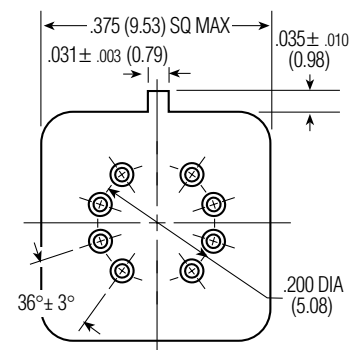
Signal Strength: 0 dBm.

Notes: 1. Unused terminals were terminated with 50 ohm impedance load. 2. All readings are typical.

Enclosures



Header



**Header and Terminal Finish:
Gold plated**

Part Numbering System

Typical Part Number

Series:

MW4 = 4 GHz. switching relay

MW4HP = High performance 4 GHz. switching relay

Coil Sensitivity:

Leave Blank = Standard Coil S = Sensitive Coil

Coil Designator:

5 = 5VDC

6 = 6VDC†

9 = 9VDC†

12 = 12VDC

18 = 18VDC

26 = 26.5VDC

† 6 and 9 volt coil only available on high performance models.

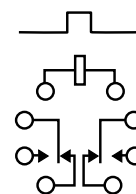
Terminal Length:

A = 0.750 in (19.05 mm)

B = 1.50 in (38.105 mm) — only available on high performance models

P = 0.187 ± 0.010 in (4.75 ± 0.25 mm)

Wiring Diagram



Terminal View

MW6 & MW6HP Models 6 GHz. Switching

Electrical Characteristics

Contact Arrangement:

2 Form C (DPDT)

Contact Resistance:

Before life: 100 milliohms, max
(measured @ 10mA @ 6VDC.)

After life: 200 milliohms, max
(measured @ 1A @ 28VDC.)

Mechanical Life Expectancy:

10 million operations

Coil Voltages:

5, 12, 18 & 26.5VDC (MW6)

5, 6, 9, 12, 18 & 26.5VDC (MW6HP)

Coil Power (mw max @25°C):

MW6	MW6S	MW6HP	MW6HPS
675	565	673	563

Duty Cycle:

Continuous

Pick-up Voltage:

MW6: Approx 70% of nominal.

MW6HP: Approx 50% of nominal.

Pick-up Sensitivity (mw max @25°C):

MW6	MW6S	MW6HP	MW6HPS
180	90	123	68

Operating Characteristics

Timing:

Operate Time (ms max.)

MW6	MW6S	MW6HP	MW6HPS
4.0	6.0	2.0	4.0

Release Time (ms max.)

MW6	MW6S	MW6HP	MW6HPS
3.0	3.0	1.5	2.0

Bounce Time (ms max.)

MW6	MW6S	MW6HP	MW6HPS
—	—	1.5	1.5

Dielectric Withstanding Voltage:

Between Open Contacts,

Between Adjacent Contacts and

Between Contacts and Coil:

MW6 types: 350Vrms, 60 Hz.

MW6HP types: 500Vrms, 60 Hz.

Insulation Resistance:

1,000 megohms @ 500VDC.

Environmental Characteristics

Temperature Range:

MW6 types: -55°C to +85°C.

MW6HP types: -65°C to +125°C.

Weight:

MW6, MW6HP: 0.09 oz. (2.55 g)

MW6S, MW6HPS: 0.12 oz. (3.40 g).

Vibration Resistance:

MW6 types: 10 G's, 10-500 Hz.

MW6HP types: 30 G's, 10-3,000 Hz

Shock Resistance:

MW6 types: 30 G's, 6 ± 1 ms.

MW6HP types: 100 G's, 6 ± 1 ms.

Contact Ratings

Contact Load	Type	Operations (min.)
1.0A @ 28VDC	Resistive	100,000
200mA @ 28VDC (300mH)*	Inductive	100,000
30µA @ 50mVDC	Low Level	10,000,000

* The inductive rating is only applicable to high performance models (MW6HP and MW6HPS).

Coil Data

MW6 Models

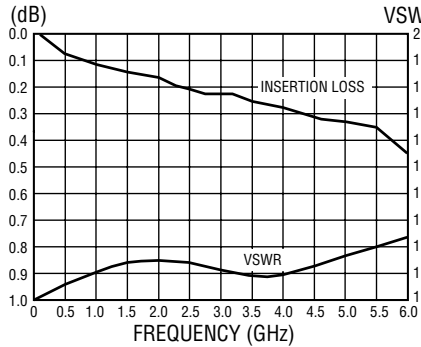
Nominal Coil Voltage (VDC)	Coil Resistance In Ohms ±20% @ 25°C	Pickup Voltage VDC (Max.) @ 25°C	Nominal Coil Power (mw) @ 25°C	Maximum Coil Voltage	Coil Designator
Standard Coil					
5.0	50	3.6	500	5.8	5
12.0	390	8.4	369	16.0	12
18.0	880	13.0	368	24.0	18
26.5	1,560	17.0	450	32.0	26
Sensitive Coil					
5.0	100	3.5	250	7.5	5
12.0	850	9.0	169	20.0	12
18.0	1,600	13.5	203	30.0	18
26.5	3,300	18.0	213	40.0	26

MW6HP (High Performance) Models

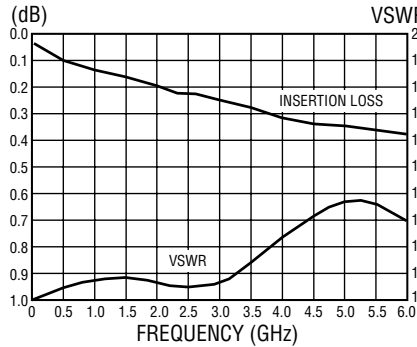
Nominal Coil Voltage (VDC)	Coil Res. in Ohms ±10% @ 25°C	Pickup V VDC (Max.) @25°C	Release V VDC (Max.) @25°C	Release V VDC (Min.) @25°C	Nominal Coil Power (mw) @25°C	Maximum Coil Voltage	Coil Designator
Standard Coil							
5.0	50	2.7	1.4	0.22	500	5.8	5
6.0	98	3.5	2.0	0.28	367	8.0	6
9.0	220	5.3	3.0	0.54	368	12.0	9
12.0	390	7.0	4.0	0.63	369	16.0	12
18.0	880	10.5	6.0	0.91	368	24.0	18
26.5	1,560	14.2	8.0	1.37	450	32.0	26
Sensitive Coil							
5.0	100	2.6	1.4	0.23	250	7.5	5
6.0	200	3.4	2.0	0.28	180	10.0	6
9.0	400	4.85	3.0	0.55	203	15.0	9
12.0	850	7.0	4.0	0.64	169	20.0	12
18.0	1,600	9.8	6.0	0.92	203	30.0	18
26.5	3,300	14.0	8.0	1.4	213	40.0	26

**MW6 & MW6HP Models
6 GHz. Switching**

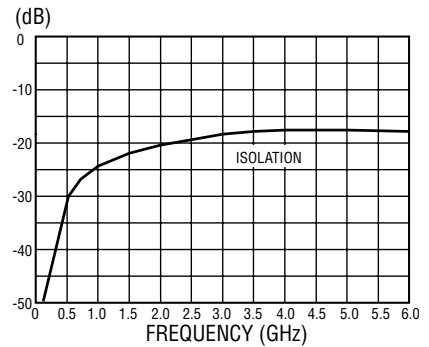
Insertion Loss & VSWR: NO Contacts



Insertion Loss & VSWR: NC Contacts



Isolation



Test Conditions

Test Board: 0.031" double sided copper clad, PTFE based laminate.

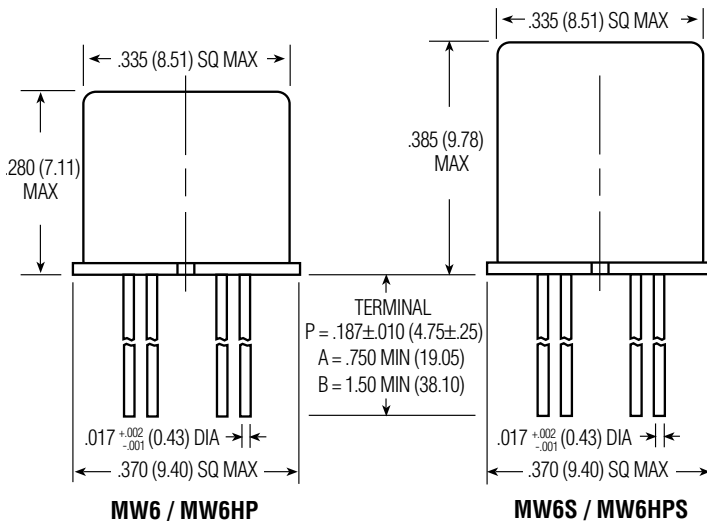
Connections: Relay header is soldered to ground plane. Relay terminals are soldered to through holes. SMA connectors are soldered to circuit traces.

Temperature: Room ambient.

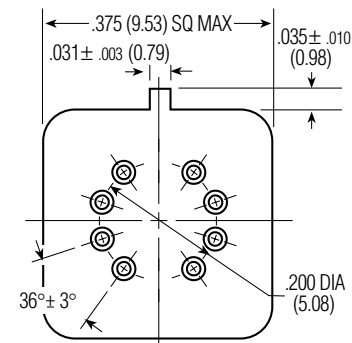
Signal Strength: 0 dBm.

Notes: 1. Unused terminals were terminated with 50 ohm impedance load. 2. All readings are typical.

Enclosures



Header

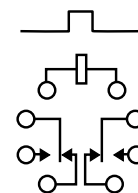


**Header and Terminal Finish:
Gold plated**

Part Numbering System

Typical Part Number	MW6	S	-5	P
Series: MW6 = 6 GHz. switching relay MW6HP = High performance 6 GHz. switching relay				
Coil Sensitivity: Leave Blank = Standard Coil S = Sensitive Coil				
Coil Designator: 5 = 5VDC 6 = 6VDC† 9 = 9VDC† 12 = 12VDC 18 = 18VDC 26 = 26.5VDC † 6 and 9 volt coil only available on high performance models.				
Terminal Length: A = 0.750 in (19.05 mm) B = 1.50 in (38.105 mm) – only available on high performance models P = 0.187 ± 0.010 in (4.75 ± 0.25 mm)				

Wiring Diagram



Terminal View

Americas

Argentina – Buenos Aires
Phone: +54-11-4733-2200
Fax: +54-11-4733-2250

Brasil – São Paulo
Phone: +55-11-3611-1311
Fax: +55-11-3611-0397

Canada – Markham
Phone: +905-475-6222
Fax: +905-474-5520
Product Information Center:
(Technical Support)
Phone: +905-470-4425
Fax: +905-474-5525

Colombia – Bogota
Phone: +57-1-240-9396
Fax: +57-1-660-0206

Mexico – Mexico City
Phone: +52-55-5-729-0425
Fax: +52-55-5-398-1430

United States – Harrisburg, PA
Phone: +717-564-0100
Fax: +717-986-7575
Product Information Center:
(Technical Support)
Phone: +800-522-6752
Fax: +717-986-7575

For Latin/South American Countries not shown
Phone: +57-1-240-9396
Fax: +57-1-660-0206

Asia/Pacific

Australia – Sydney
Phone: +61-2-9840-8200
Fax: +61-2-9899-5649
Product Information Center:
(Technical Support)
Phone: +61-2-9554-2600
Fax: +61-2-9502-2556

India – Bangalore
Phone: +91-80-841-0200
Fax: +91-80-841-0210

Indonesia – Jakarta
Phone: +6221-526-7852
Fax: +6221-526-7856

Japan – Kawasaki, Kanagawa
Phone: +81-44-844-8079
Fax: +81-44-844-8733
Product Information Center:
(Technical Support)
Phone: +81-44-844-8013
Fax: +81-44-812-3200
Raychem Products
Phone: +81-44-900-5102
Fax: +81-44-5025-5027

Korea – Seoul
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