

| | | | | | |
|-------------------------------|----------------------------------|---|--|---|---------------------|
| 品牌 Brand | |  |  | CII High Frequency | |
| 外觀形狀 Appearance | |  |  |  | |
| 高頻特性 | | 3 GHz | 3 GHz | 4 GHz | 6 GHz |
| 建議售價 | | 5X.xx (USD) | 4X.xx (USD) | | |
| Part / No. | | RF303-5 (712-5) RF303-12 (712-12) | MW3S-5A MW3S-12A | MW4S-5A MW4S-12A | MW6S-5A MW6S-12A |
| 表面積 LxW (mm) | | ψ9.4 mm MAX | ψ9.4 mm MAX | 9.40mm Square MAX | |
| 回路接續圖 Figure. (TOP VIEW) | |  |  |  | |
| 電氣規格 | 接點構成 Contact Form | 2 from C |  | 2 from C | |
| | 線圈電壓 / 阻抗 Coil Rating Voltage | 5 V / 100Ω 12 V / 850Ω | | 5 V / 100Ω 12 V / 850Ω (另有 6V / 9V / 18V / 26V 可選) | |
| | 接點容量 (max) | | | | |
| | 切換電流 (max) | | | | |
| | 通電電流 (max) | 1.0 Amp | 1.0 Amp | | |
| | 切換電壓 (max) | 28VDC | 28VDC | | |
| | 接點間耐電壓 | | | | |
| | 接點阻抗 (max) | 150 mΩ | 150 mΩ | | |
| | 絕緣阻抗(各導體相) | 10 ⁹ Ω min. | 10 ⁹ Ω min. | | |
| | 動作時間 (max) | 6.0 ms. Max. | 6.0 ms. Max. | | |
| | 回復時間 (max) | 3.0 ms. Max. | 3.0 ms. Max. | | |
| | 操作溫度 (度C) | -55°C to +85°C. | -55°C to +85°C. (可選 -65°C to +125°C.) | | |
| 機械壽命 (min) Mechanical Life | 10×10 ⁶ | 10×10 ⁶ | | | |
| 外觀尺寸 | DIMENSION |  | |  | |
| | | | |  | |

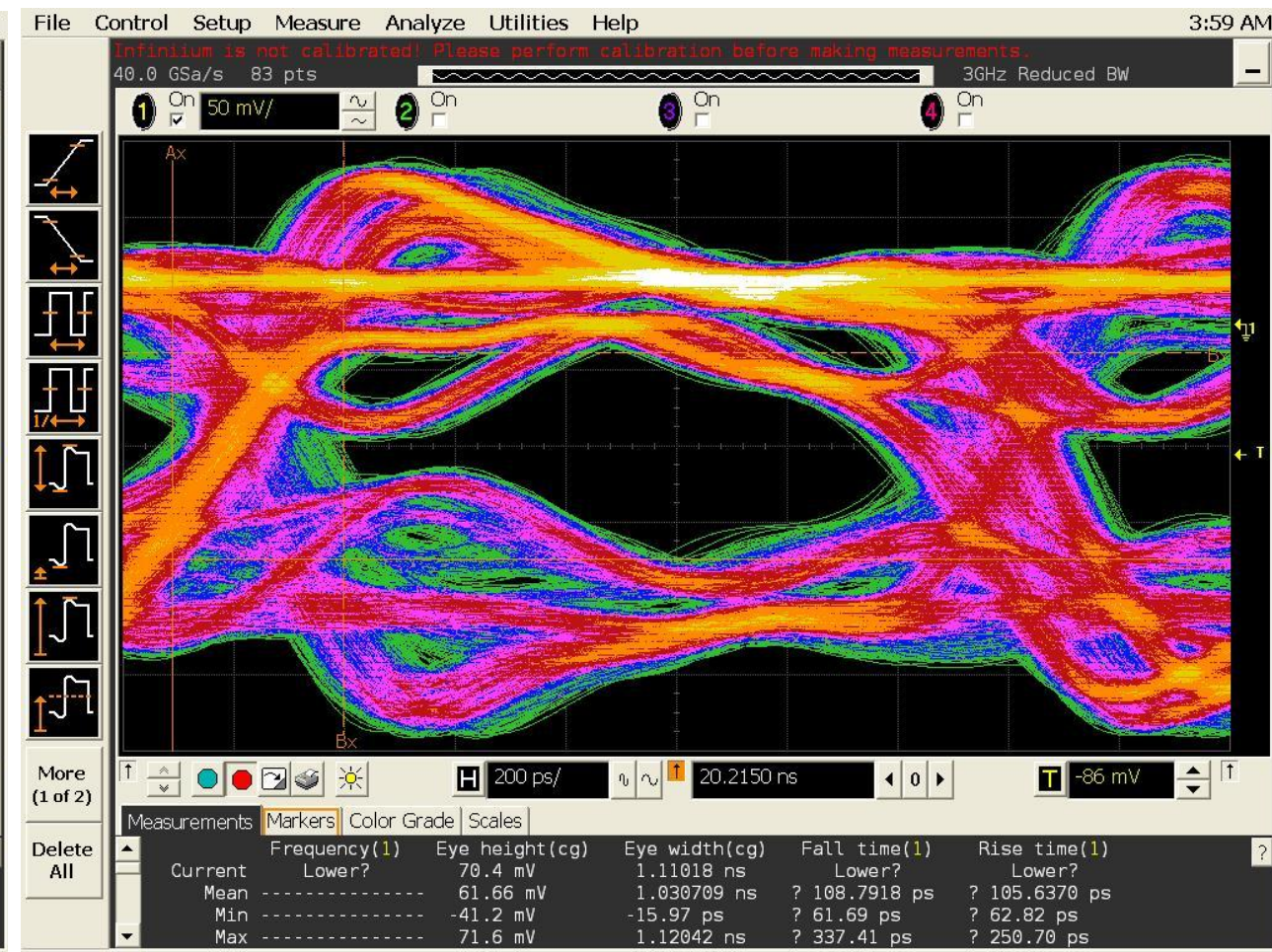
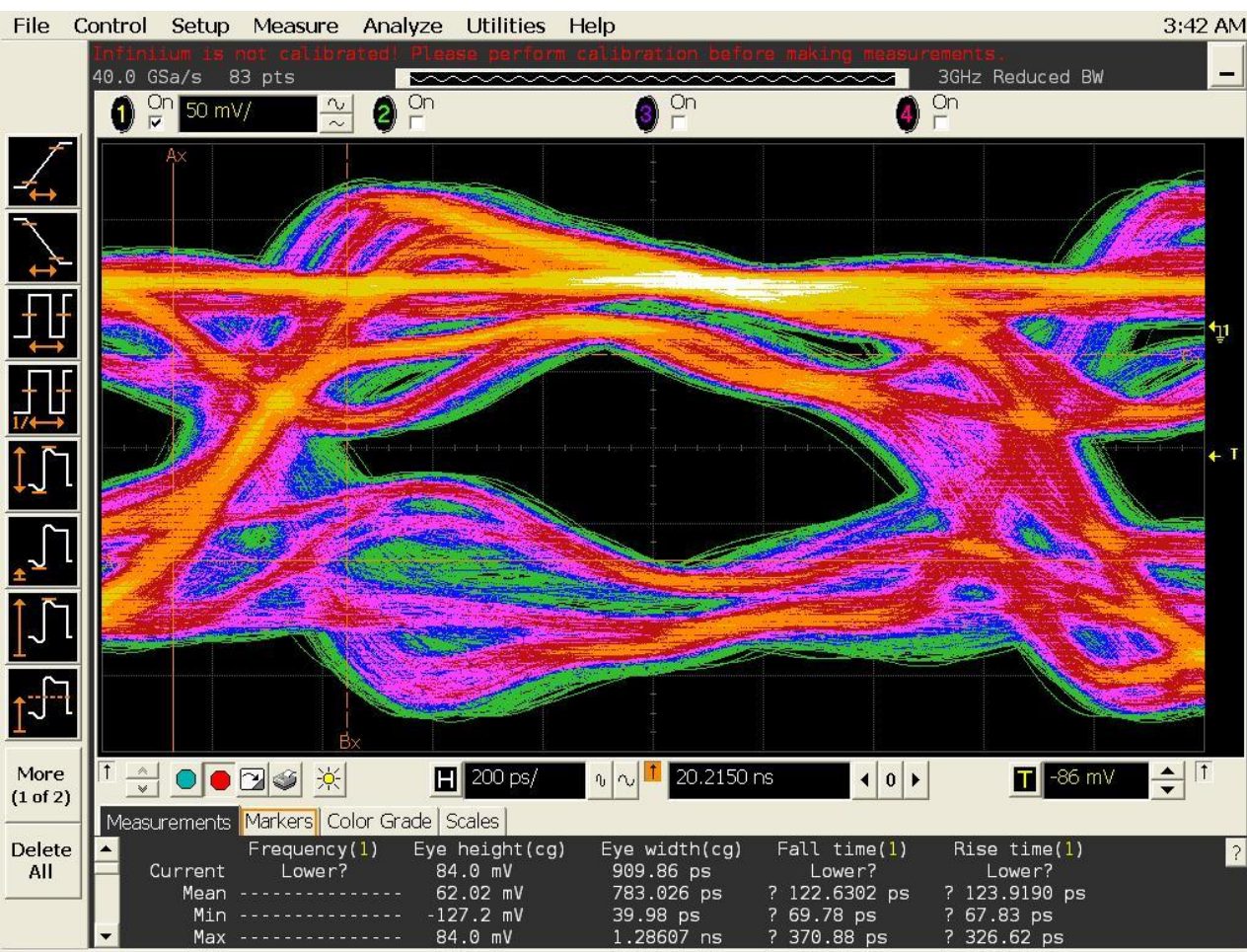
宜技 MW3S vs RF303 比較

驗證pattern : LVDS high, data rate 700Mbps

Loop run 100次穩定pass

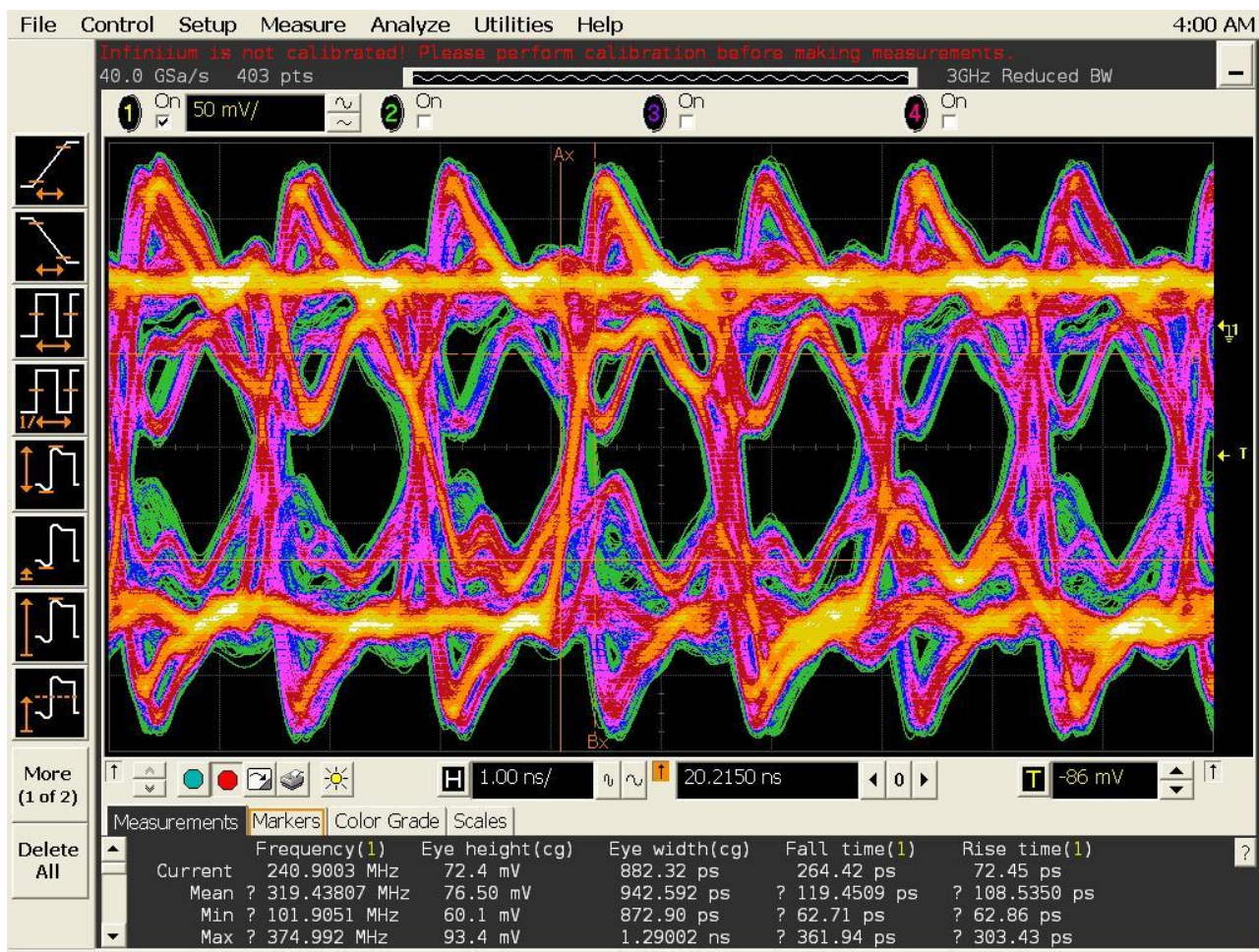
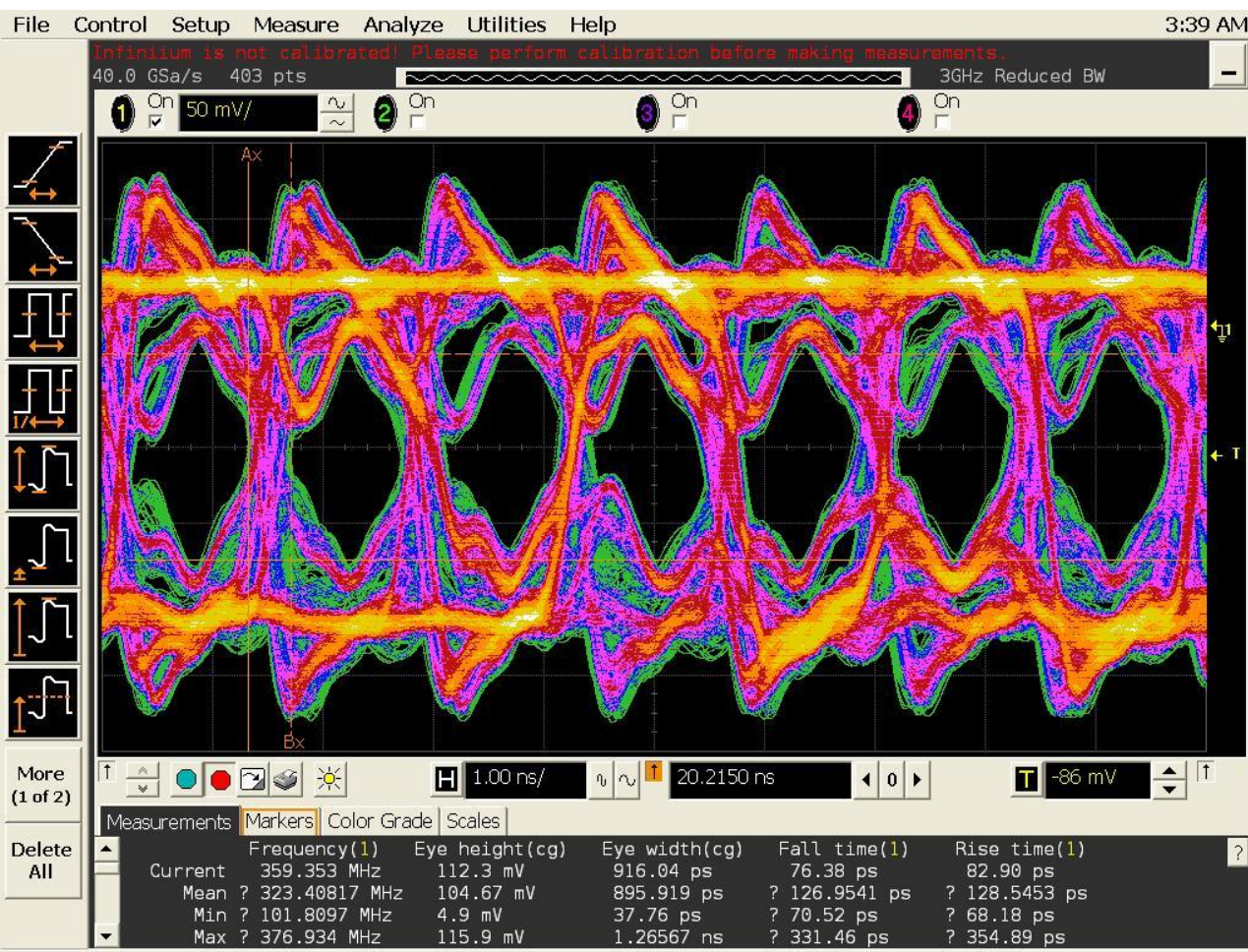
MW3S(左) , RF303(右)

overshoot/undershoot MW3S好一些,其餘差不多

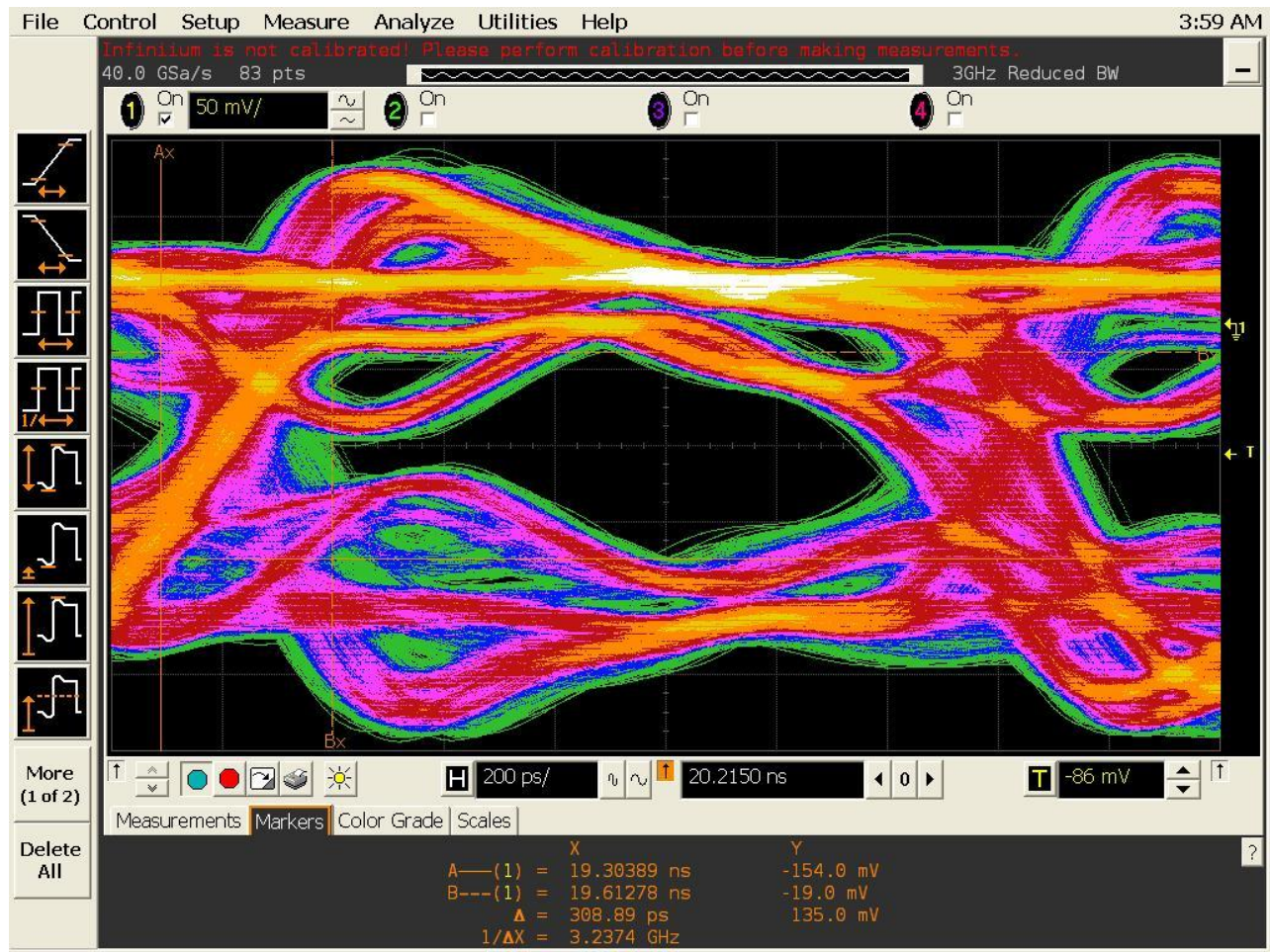
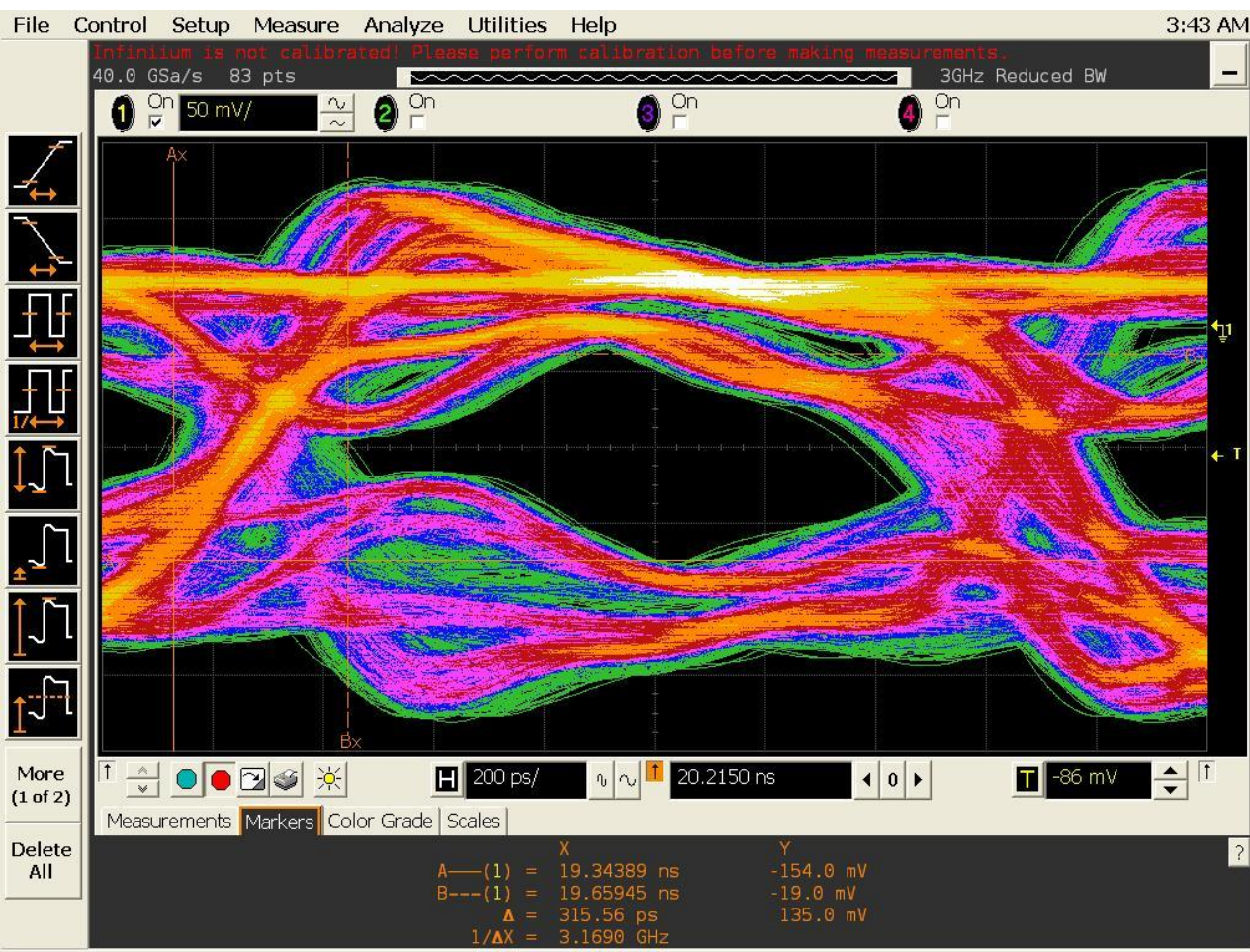


MW3S(左), RF303(右)

data rate 700Mbps



MW3S(左), RF303(右)
jitter差不多



MW3S(左), RF303(右)
rising/falling time RF303好一些

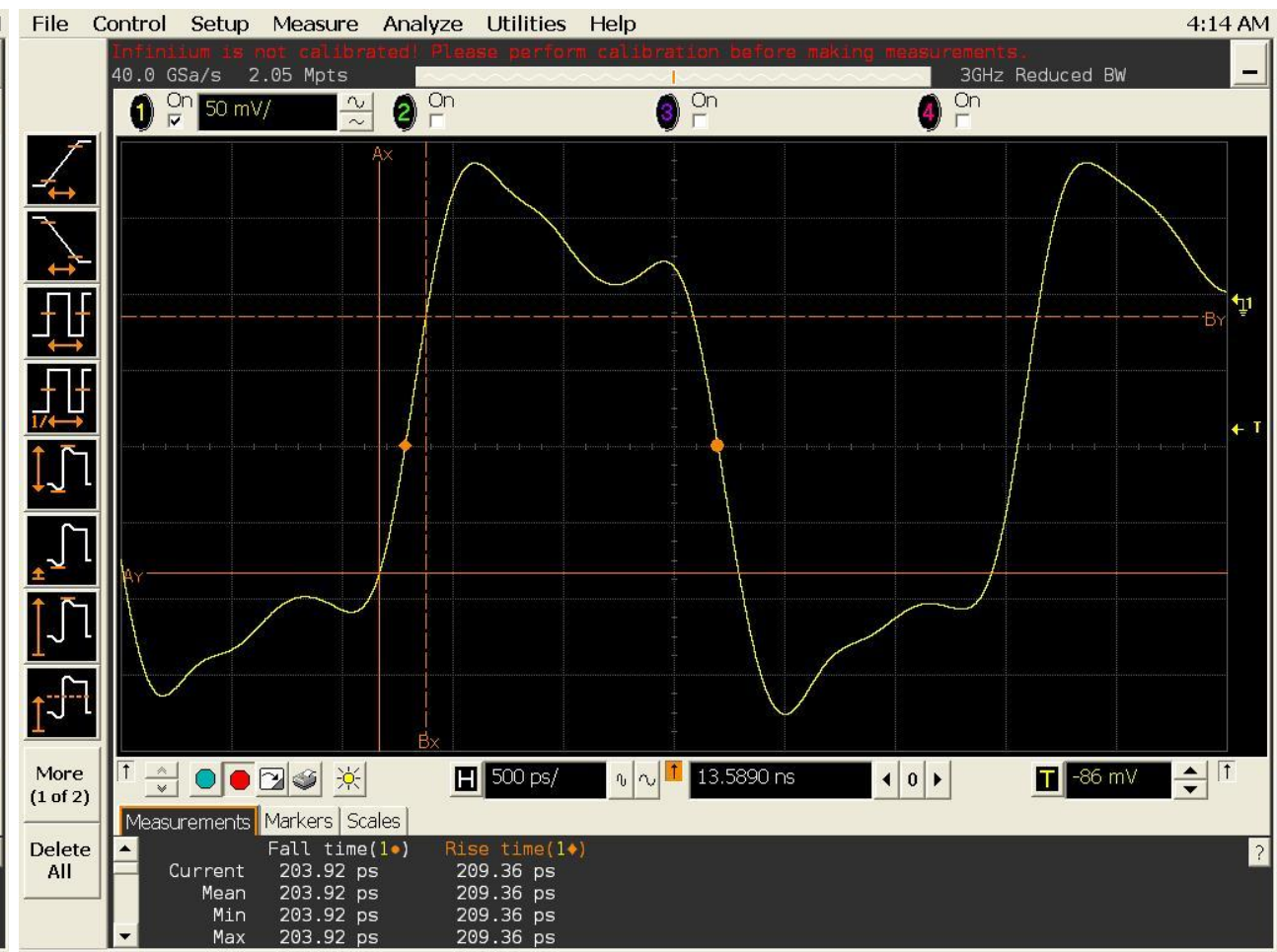
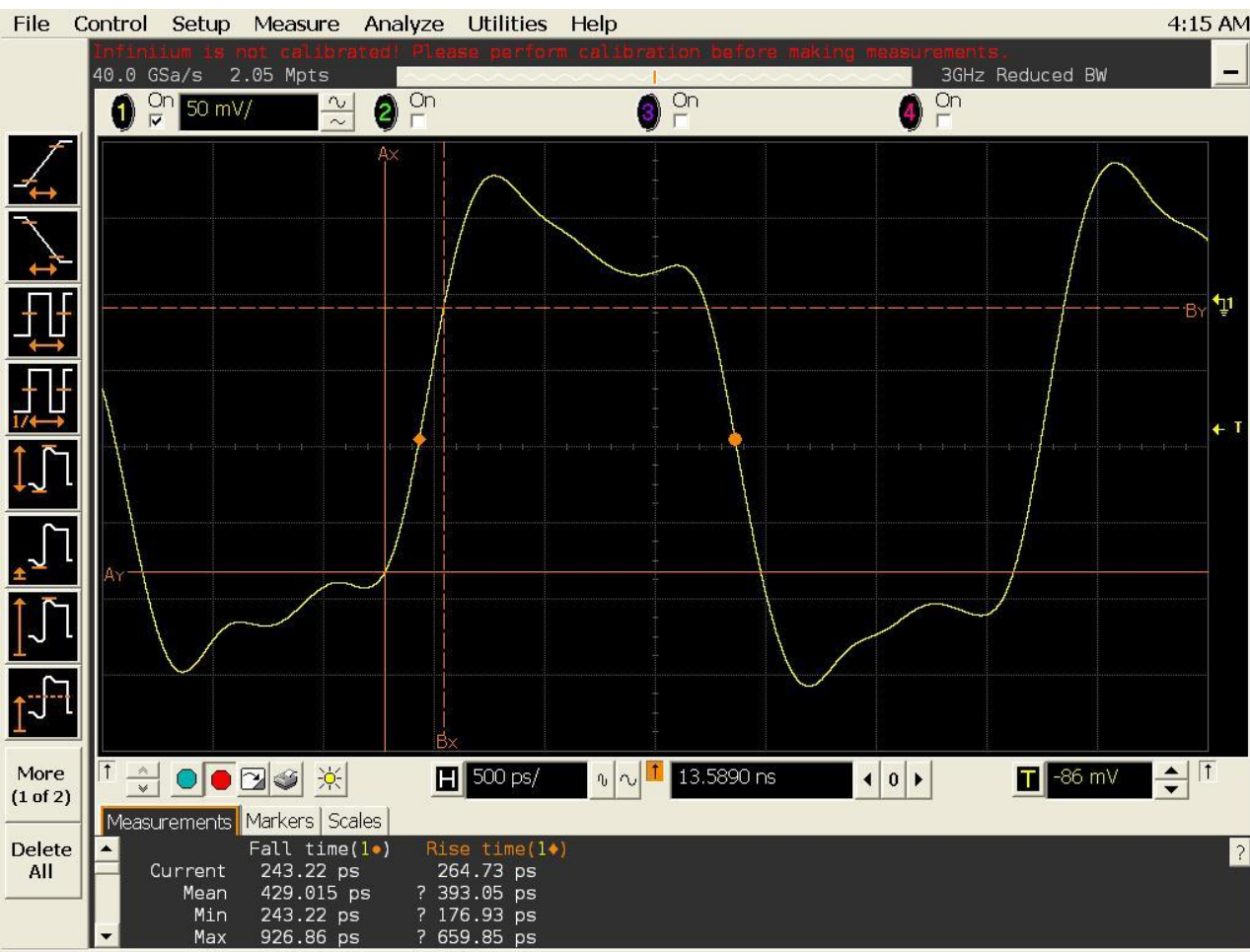


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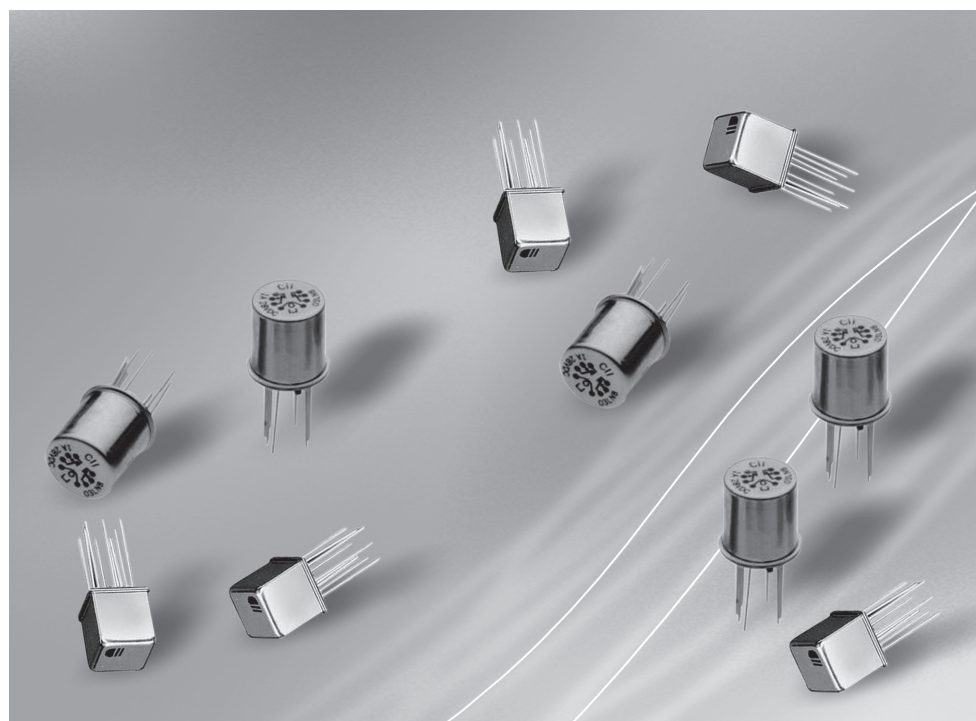
Double Pole, Electrically Held, 1 Amp and Less

MW3 / MW4 / MW6 / MW3HP / MW4HP / MW6HP Series Relays

Microwave Switching,
Hermetically Sealed, DPDT

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.

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Microwave Switching,
Hermetically Sealed, DPDTMW3 & MW3HP Models
3 GHz. Switching

Electrical Characteristics

Contact Arrangement —

2 Form C (DPDT)

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 —

10 million operations

Coil Voltages —

5, 12, 18 & 26.5 VDC (MW3)

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

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 — 350 Vrms, 60 Hz.

MW3HP types — 500 Vrms, 60 Hz.

Insulation Resistance —

1,000 megohms @ 500 VDC

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 Desig. |
|----------------------------|-------------------------------------|----------------------------------|--------------------------------|----------------------|-------------|
| 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

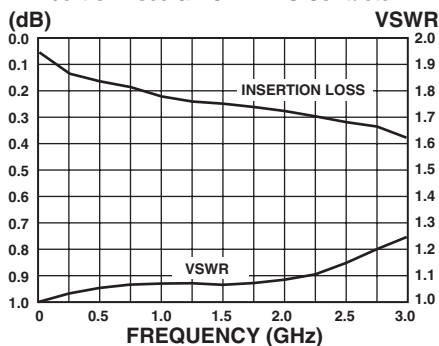
| Nominal Coil Voltage (VDC) | Coil Res. in Ohms ±10% @ 25°C | Pickup V VDC (Max.) @ 25°C | Release V VDC (Max.) @ 25°C | Release V VDC (Min.) @ 25°C | Nominal Coil Power (mW) @ 25°C | Maximum Coil Voltage | Coil Desig. |
|----------------------------|-------------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------------|----------------------|-------------|
| 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 |

Double Pole, Electrically Held, 1 Amp and Less (Continued)

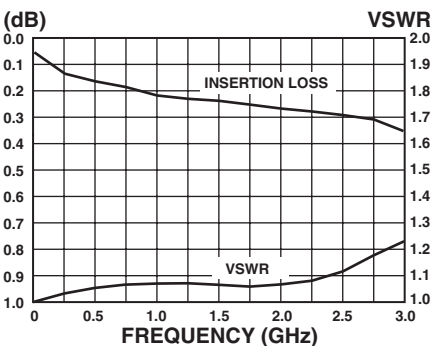
Microwave Switching, Hermetically Sealed, DPDT

MW3 & MW3HP Models, 3 GHz. Switching (Continued)

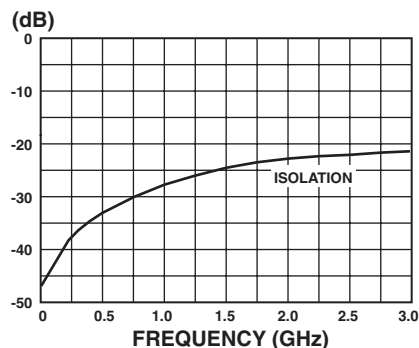
Insertion Loss & VSWR: NO Contacts



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.

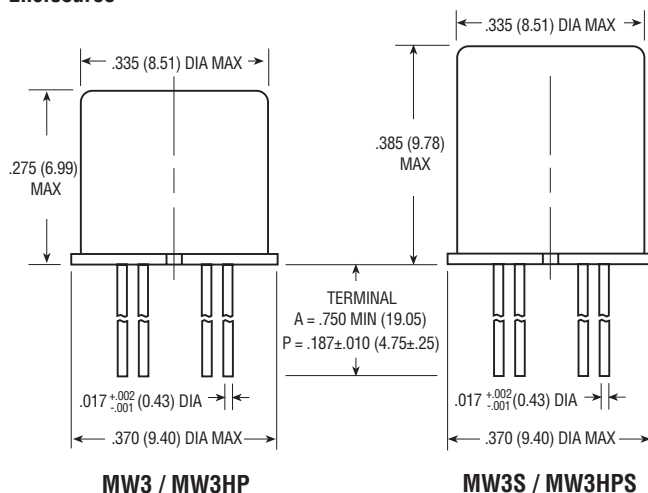
Temperature — Room ambient.

Signal Strength — 0 dBm.

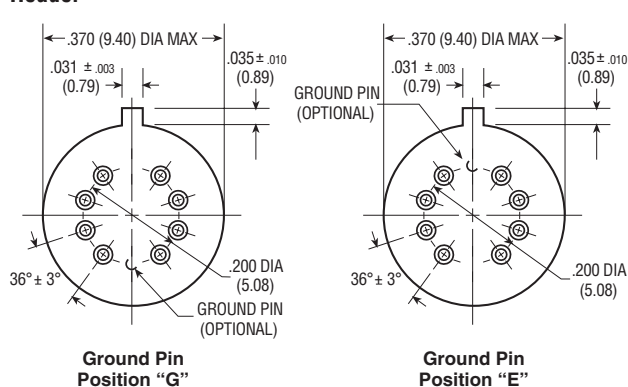
Notes:

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

Enclosures



Header



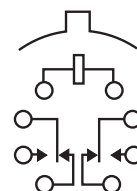
For other ground pin configurations consult factory.

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

Part Numbering System

| | | | | | | |
|--|--|---------------------------------------|---|--------------|---|---|
| Typical Part Number | | MW3 | S | -5 | A | G |
| 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

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Microwave Switching,
Hermetically Sealed, DPDTMW4 & MW4HP Models
4 GHz. Switching

Electrical Characteristics

Contact Arrangement —
2 Form C (DPDT)**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** —
10 million operations**Coil Voltages** —
5, 12, 18 & 26.5 VDC (MW4)
5, 6, 9, 12, 18 & 26.5 VDC (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

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 — 350 Vrms, 60 Hz.
MW4HP types — 500 Vrms, 60 Hz.**Insulation Resistance** —
1,000 megohms @ 500 VDC

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).

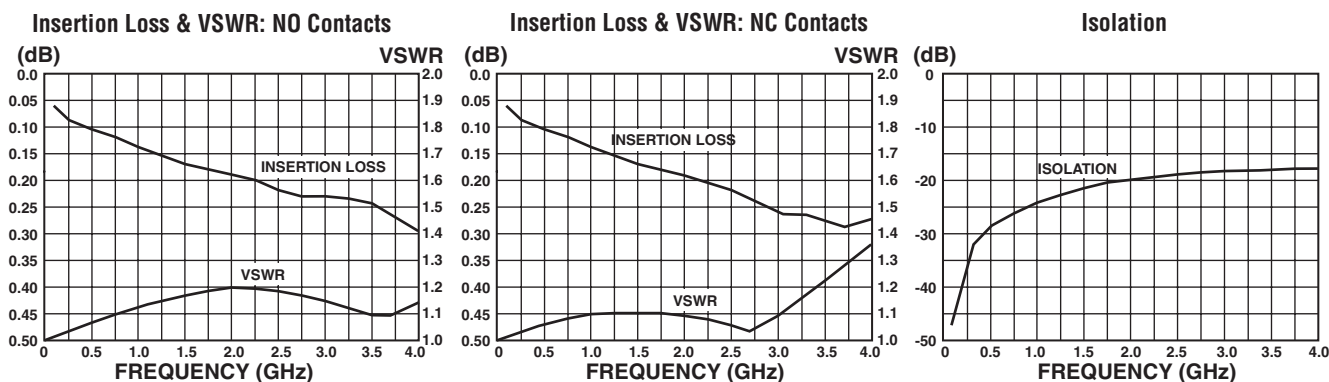
Coil Data

| 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 Desig. | |
| 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 Desig. |
| 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 |

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Microwave Switching, Hermetically Sealed, DPDT

MW4 & MW4HP Models 4 GHz. Switching (Continued)



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.

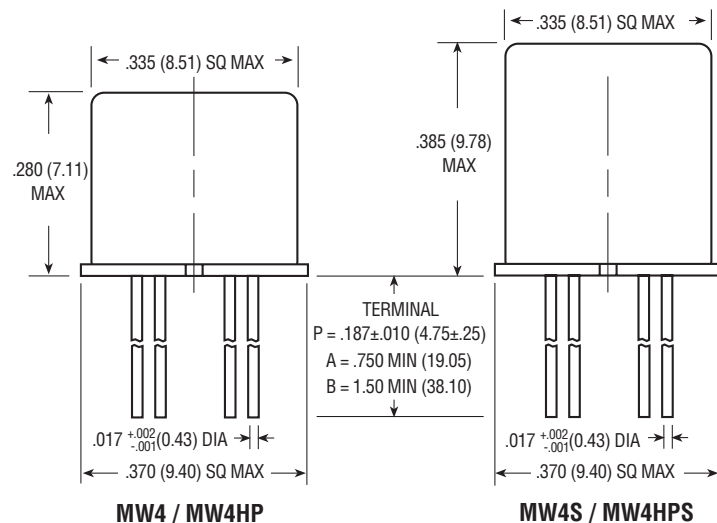
Temperature — Room ambient.

Signal Strength — 0 dBm.

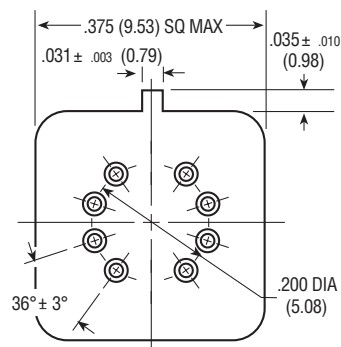
Notes:

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.

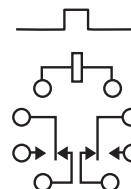
Terminal Length:

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

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Microwave Switching,
Hermetically Sealed, DPDTMW6 & MW6HP Models
6 GHz. Switching

Electrical Characteristics

Contact Arrangement —
2 Form C (DPDT)

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 —
10 million operations

Coil Voltages —

5, 12, 18 & 26.5 VDC (MW6)
5, 6, 9, 12, 18 & 26.5 VDC (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

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 — 350 Vrms, 60 Hz.
MW6HP types — 500 Vrms, 60 Hz.

Insulation Resistance —

1,000 megohms @ 500 VDC

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 (300 mH)* | 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 Desig. |
|----------------------------|-------------------------------------|----------------------------------|--------------------------------|----------------------|-------------|
| 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 |

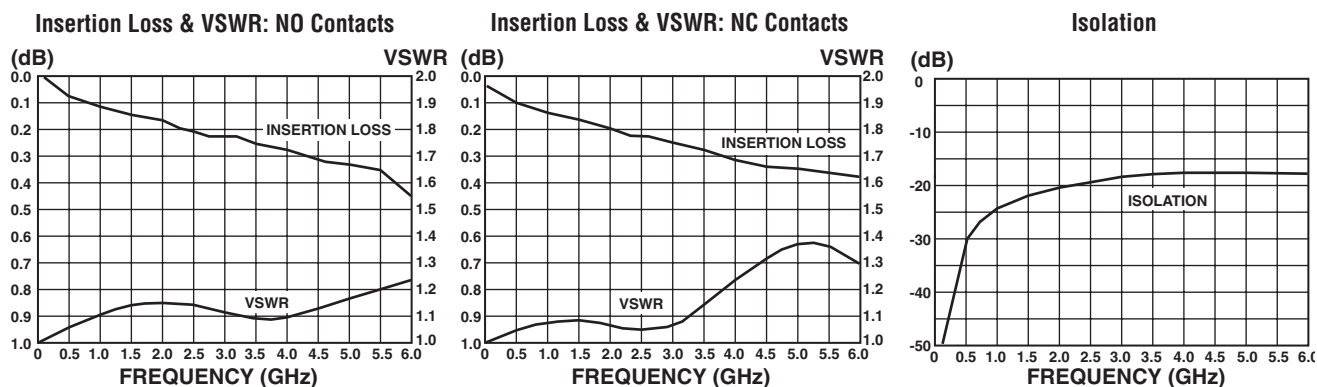
MW6HP (High Performance) Models

| 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 Desig. |
|----------------------------|-------------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------------|----------------------|-------------|
| 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 |

Double Pole, Electrically Held, 1 Amp and Less (Continued)

Microwave Switching, Hermetically Sealed, DPDT

MW6 & MW6HP Models 6 GHz. Switching (Continued)



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.

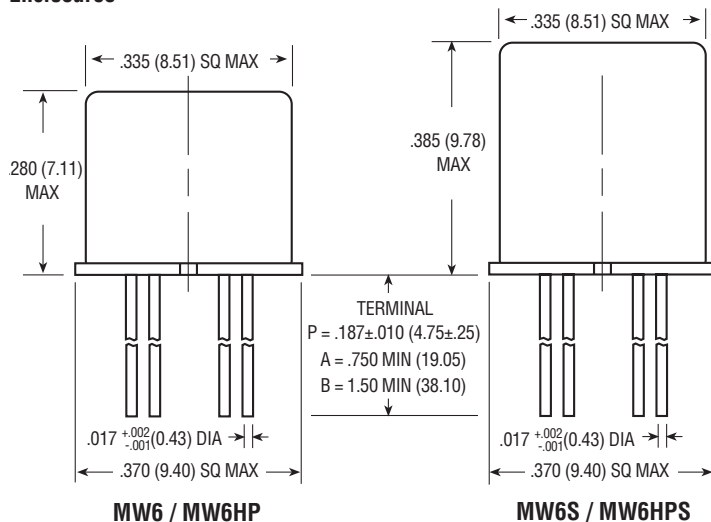
Temperature — Room ambient.

Signal Strength — 0 dBm.

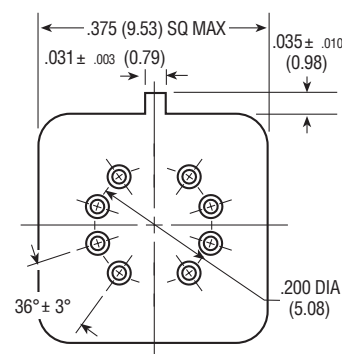
Notes:

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

Enclosures



Header

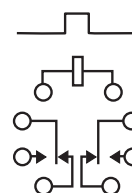


Header and Terminal Finish:
Gold plated

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