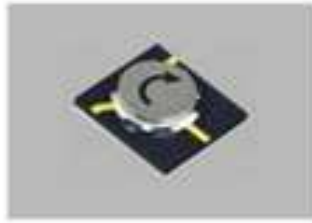




CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## Dual Microstrip Isolators and Circulators



### Features :

- ◇ Small size, Low Height, Light weight
- ◇ Micro circuit and load resistance integrated in one chip for high stability and reduced size.
- ◇ Frequencies from 2.7GHz-40GHz with relative bandwidth 30% max.
- ◇ Microstrip dual module maximum forward power of up to 150W, reverse power of up to 30~40W.
- ◇ All Dimensions are in inches[mm]

### Application :

- ◇ Widely used in military applications and communications equipment.

### Installation Process :

- ◇ Microstrip dual modules can be attached to PCB in 3 ways:
  - Soldering
  - Wire bonding
  - Other methods according to user's process assembly requirements

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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 5.0-6.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM5055A	5.0-5.5	FULL	0.5	0.9	20	20	30	20	1.25	20/3	-55-+85	4.0
CMIDM5258A	5.2-5.8	FULL	0.6	1.0	20	20	30	20	1.25	20/3	-55-+85	4.0
CMIDM5359A	5.3-5.9	FULL	0.6	1.0	20	20	30	20	1.25	20/3	-55-+85	4.0

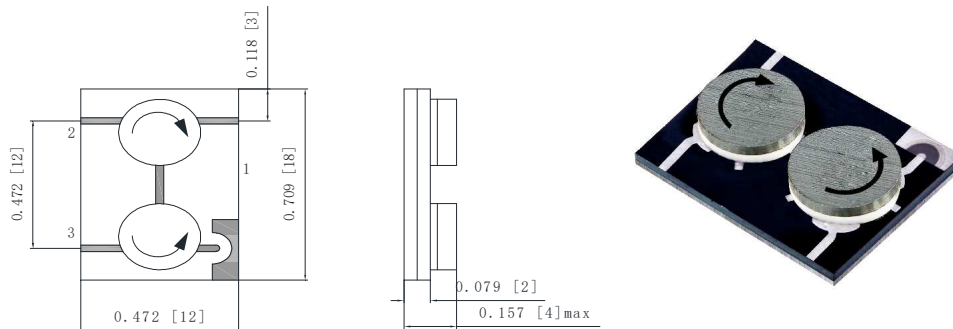
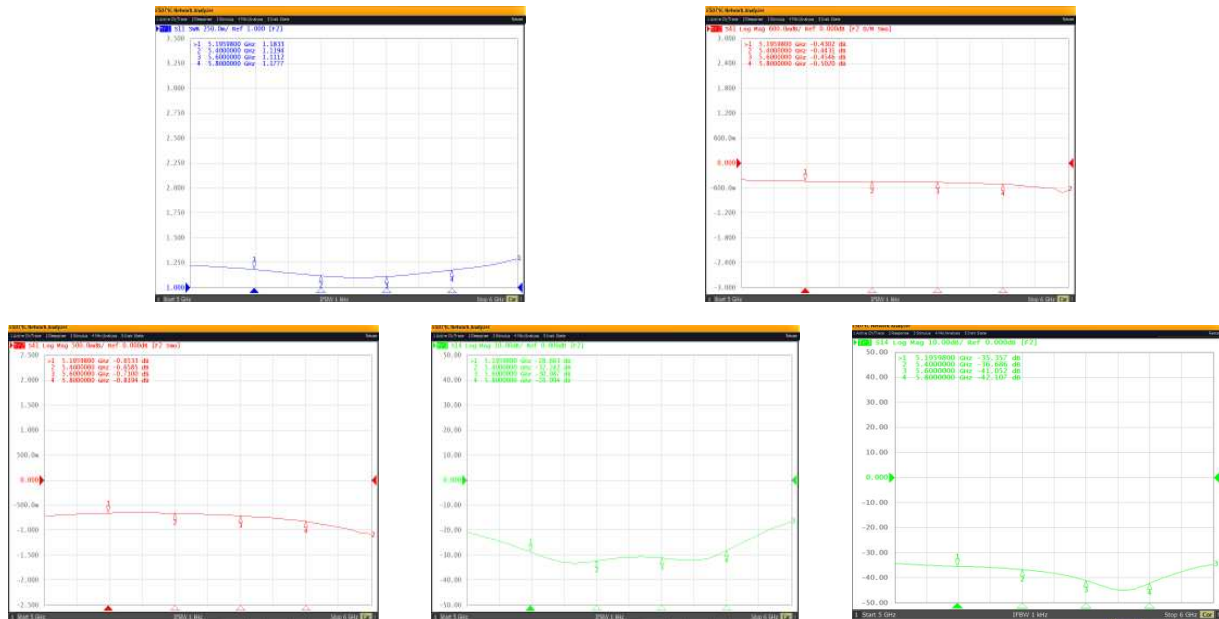


Figure 3-1-1



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 8.0-12.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM8393A	8.3-9.3	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM9096A	9.0-9.6	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM95105A	9.5-10.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM100110A	10.0-11.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM110120A	11.0-12.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM80120A	8.0-12.0	FULL	0.7	1.2	14	14	26	14	1.35	15/3	-55-+85	2.0

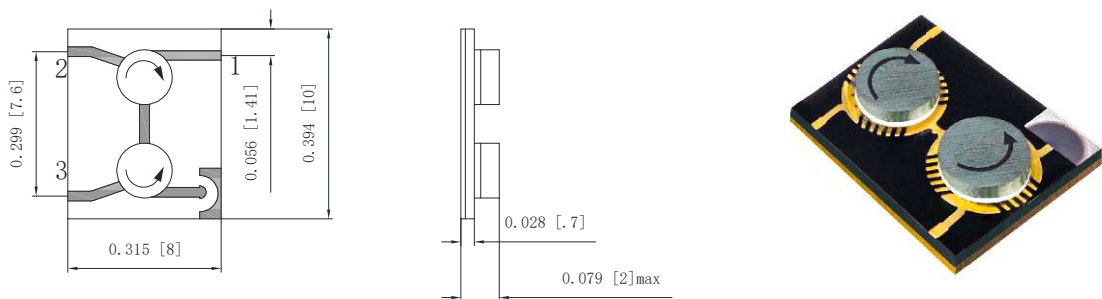
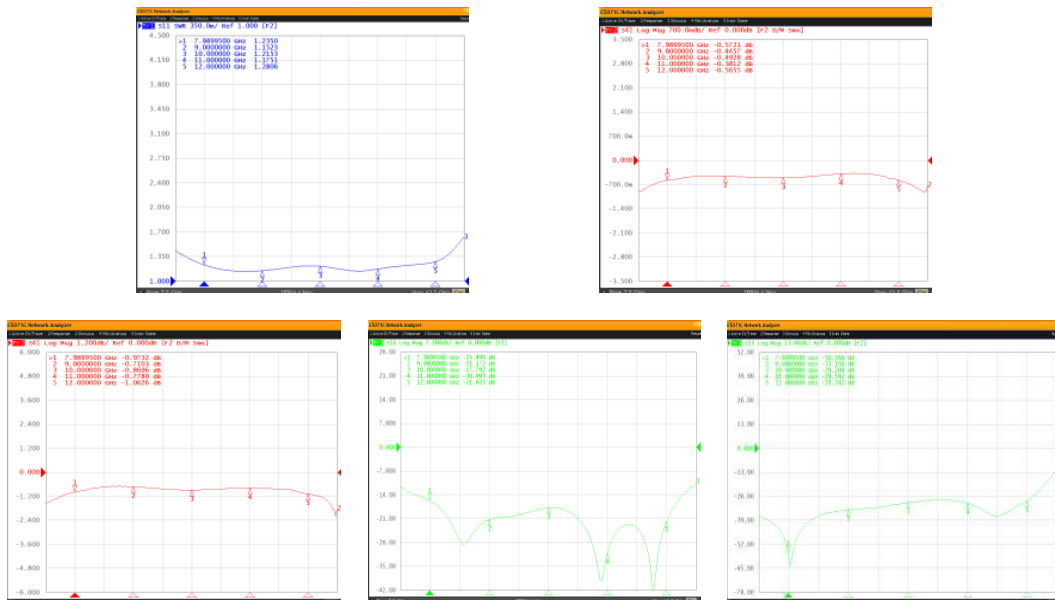


Figure 3-1-2



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM140150A	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150160A	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM155165A	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM165175A	16.5-17.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150180A	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	15/3	-55-+85	1.0
CMIDM140180A	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	15/3	-55-+85	1.0

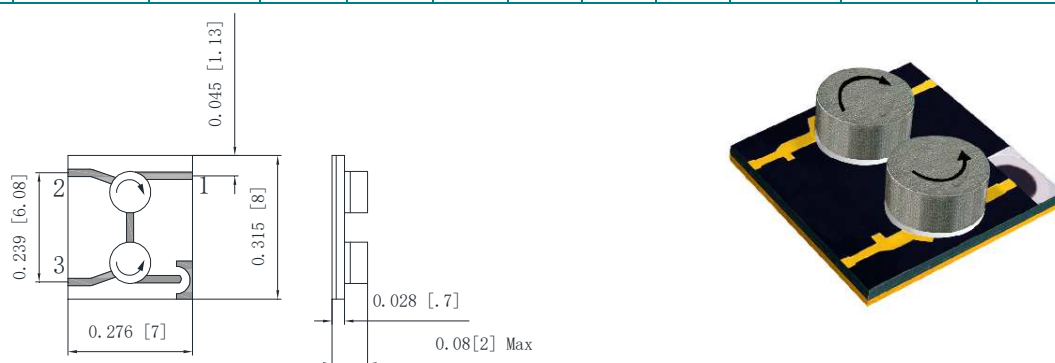
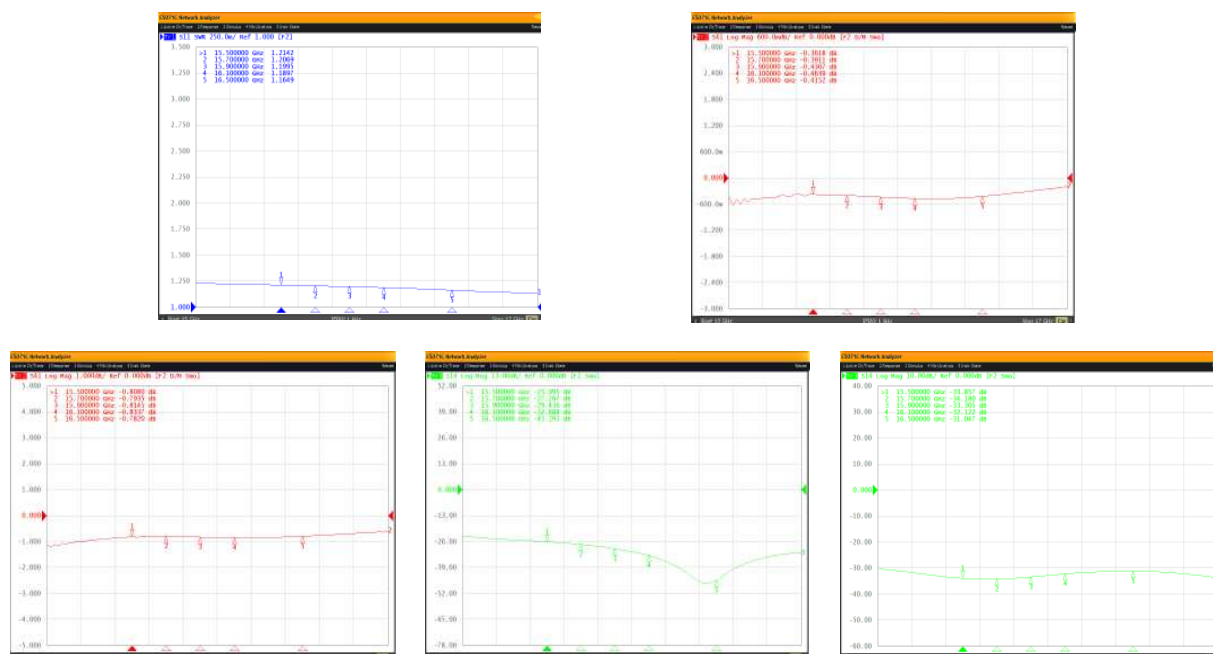


Figure 3-1-3



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM140150B	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150160B	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM155165B	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM165175B	16.5-17.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150180B	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	15/3	-55-+85	1.0
CMIDM140180B	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	15/3	-55-+85	1.0

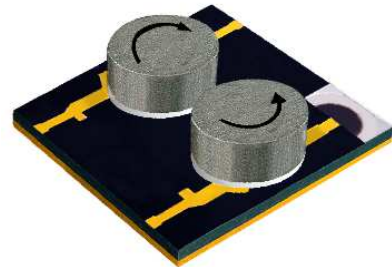
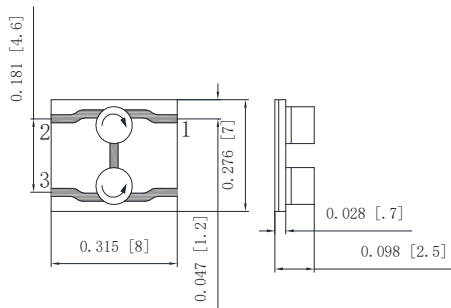


Figure 3-1-4



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 5.0-6.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM5055B	5.0-5.5	FULL	0.5	0.9	20	20	30	20	1.25	20/3	-55-+85	4.0
CMIDM5258B	5.2-5.8	FULL	0.6	1.0	20	20	30	20	1.25	20/3	-55-+85	4.0
CMIDM5359B	5.3-5.9	FULL	0.6	1.0	20	20	30	20	1.25	20/3	-55-+85	4.0

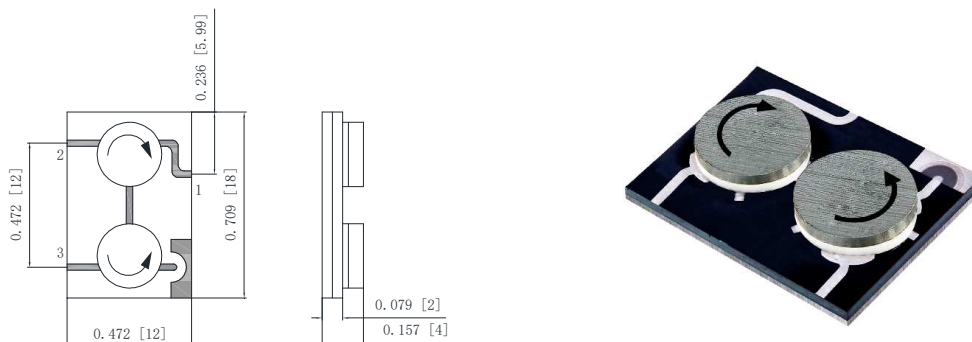
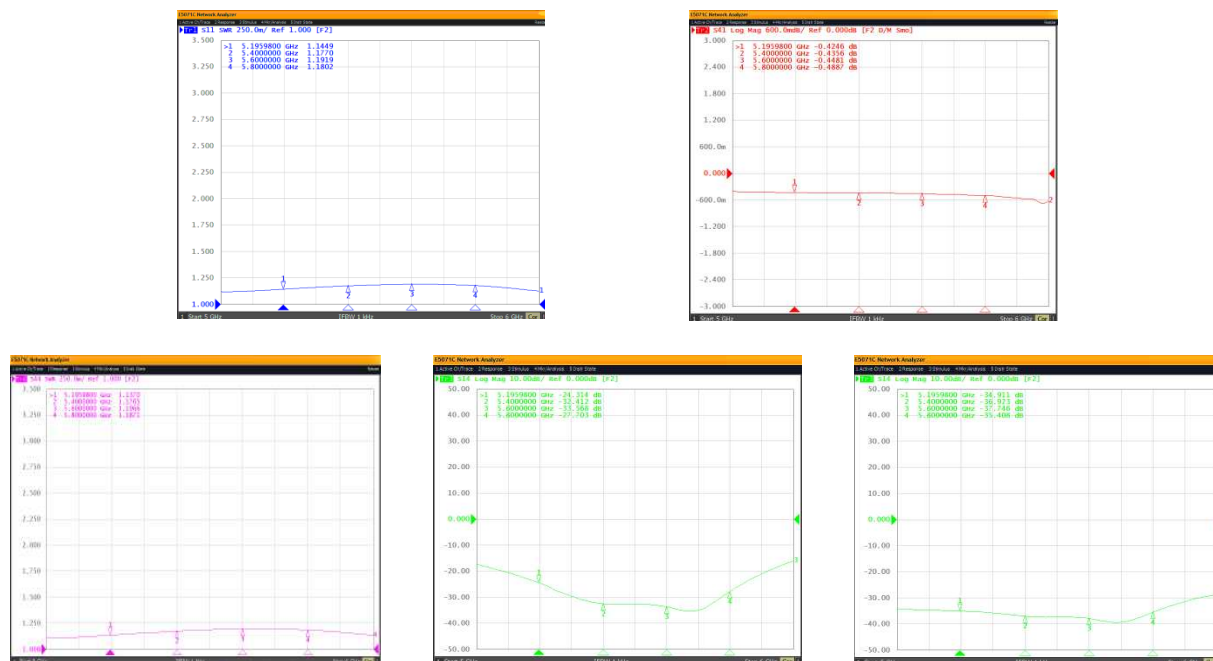


Figure 3-2-1



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 8.0-12.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM8393B	8.3-9.3	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM9096B	9.0-9.6	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM95105B	9.5-10.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM100110B	10.0-11.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM110120B	11.0-12.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	2.0
CMIDM80120B	8.0-12.0	FULL	0.7	1.2	14	14	26	14	1.35	15/3	-55-+85	2.0



Figure 3-2-2



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM140150C	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150160C	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM155165C	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM165175C	16.5-17.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150180C	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	15/3	-55-+85	1.0
CMIDM140180C	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	15/3	-55-+85	1.0

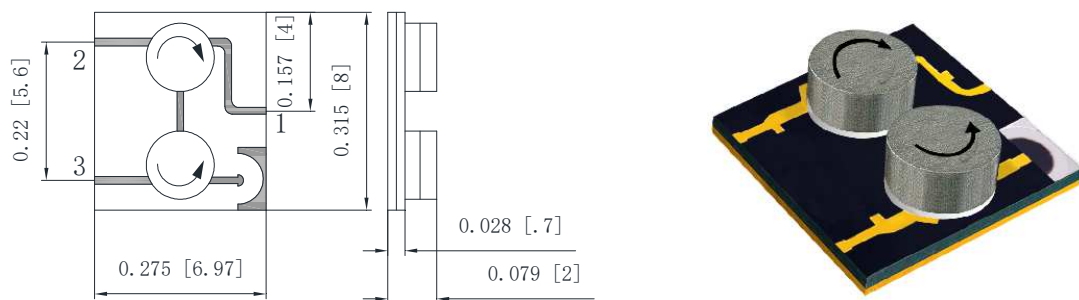
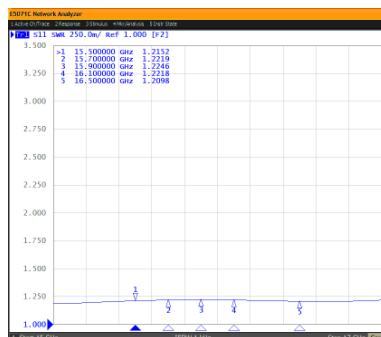


Figure 3-2-3



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMIDM140150D	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150160D	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM155165D	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM165175D	16.5-17.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMIDM150180D	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	15/3	-55-+85	1.0
CMIDM140180D	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	15/3	-55-+85	1.0

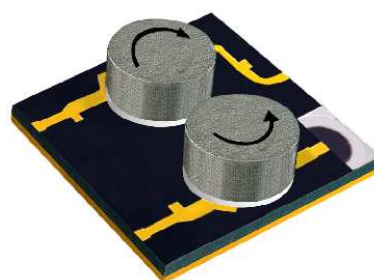
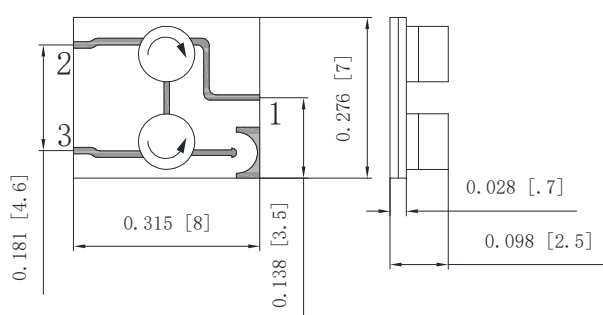


Figure 3-2-4



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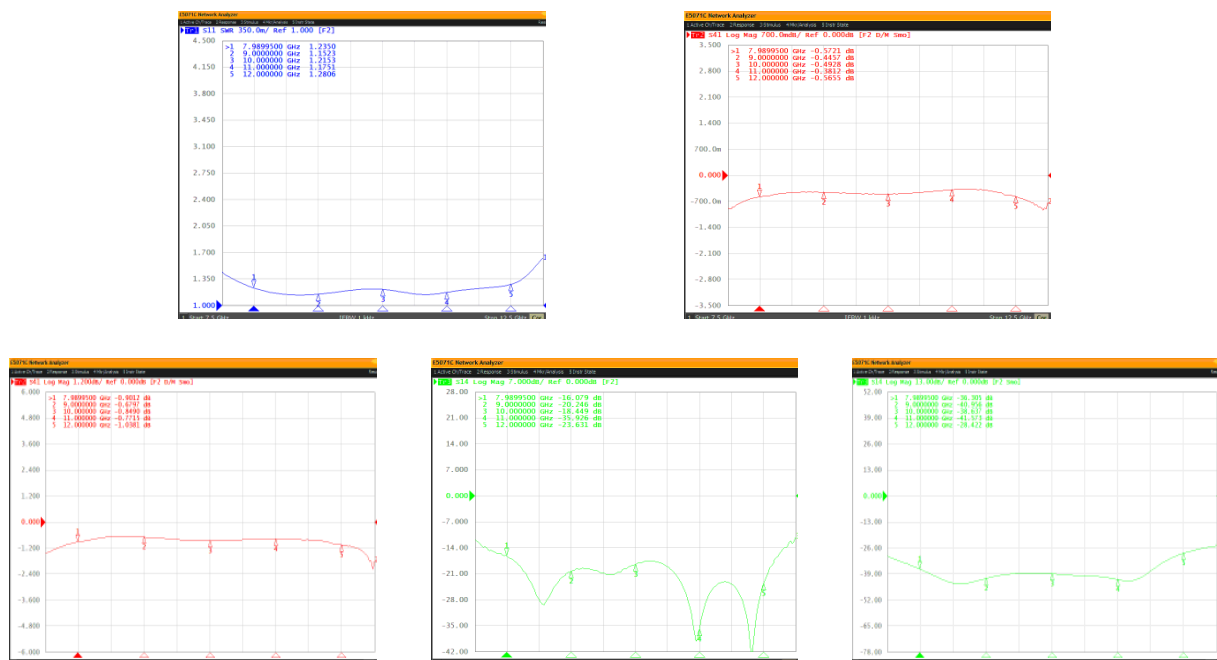
# PRODUCT SPECIFICATION

## 8.0-12.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM8393A	8.3-9.3	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM9096A	9.0-9.6	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM95105A	9.5-10.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM100110A	10.0-11.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM110120A	11.0-12.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM80120A	8.0-12.0	FULL	0.7	1.2	14	14	26	14	1.35	15/3	-55-+85	1.0



Figure 4-1-1



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 8.0-12.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM8393B	8.3-9.3	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM9096B	9.0-9.6	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM95105B	9.5-10.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM100110B	10.0-11.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM110120B	11.0-12.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM80120B	8.0-12.0	FULL	0.7	1.2	14	14	26	14	1.35	15/3	-55-+85	1.0

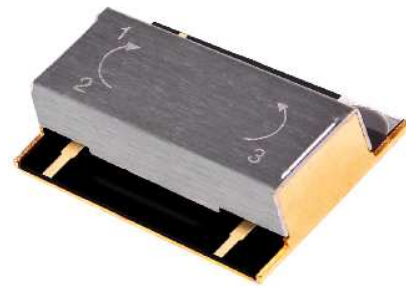
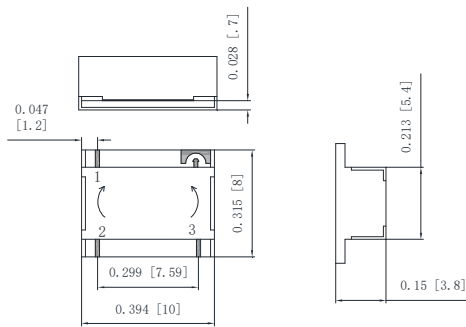
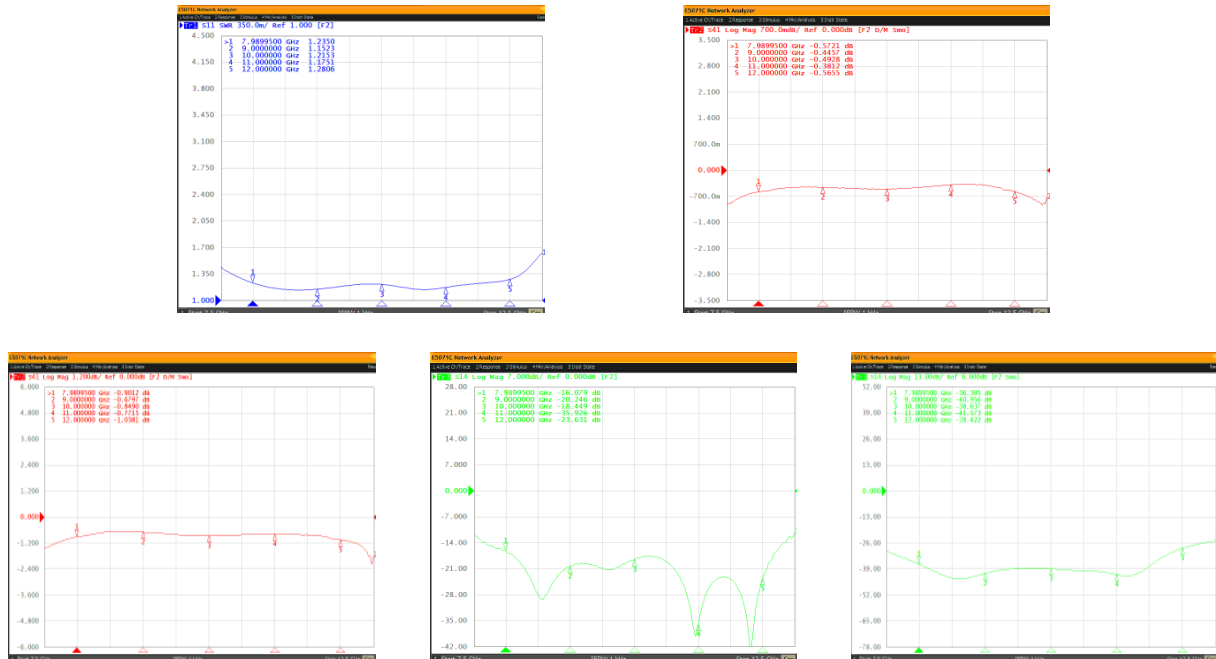


Figure 4-1-2



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM140150A	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM150160A	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM155165A	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM160175A	16.0-17.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM145180A	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	12/3	-55-+85	0.6
CMISM140150A	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	12/3	-55-+85	0.6

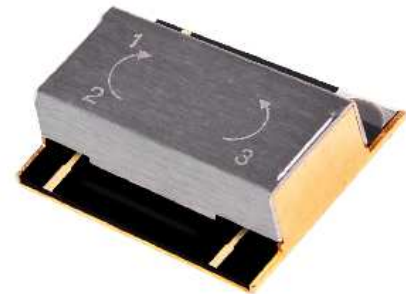
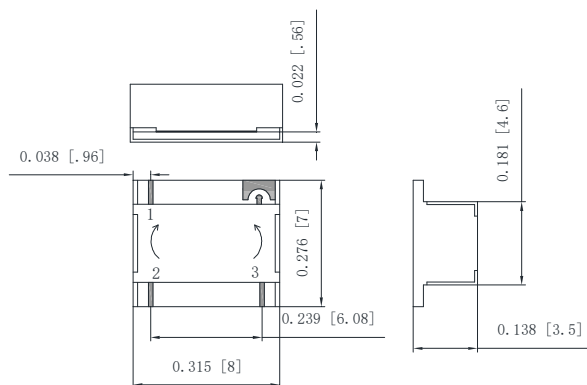


Figure 4-1-3



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM140150B	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM150160B	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM155165B	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM160175B	16.0-17.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM145180B	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	12/3	-55-+85	0.6
CMISM140150B	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	12/3	-55-+85	0.6

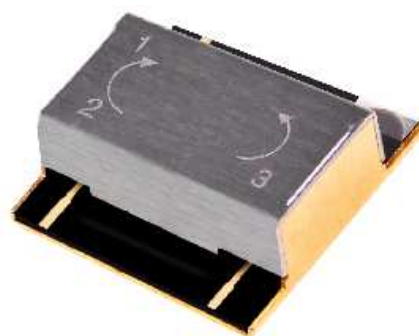
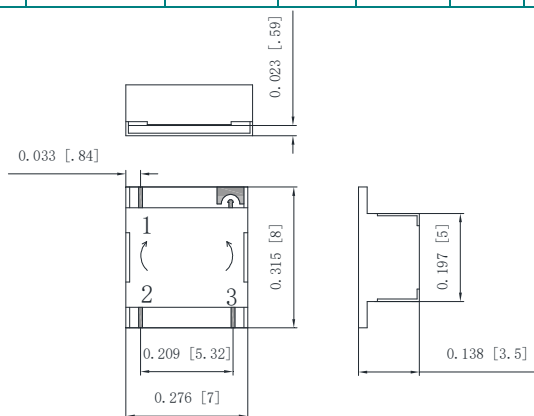
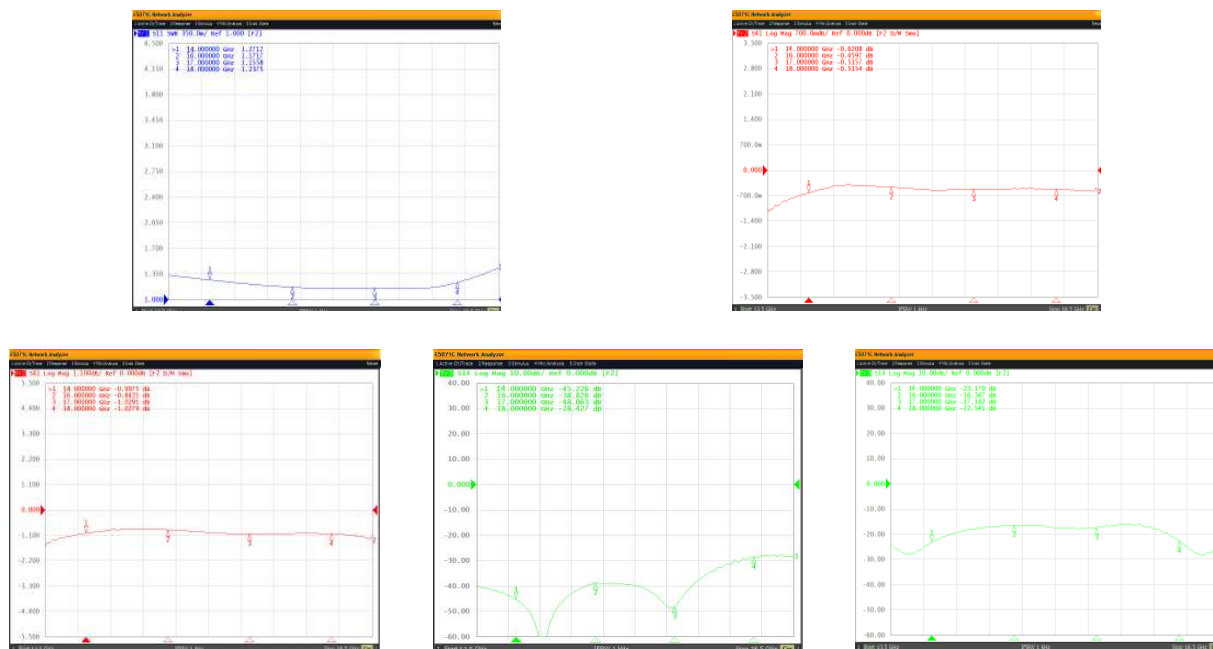


Figure 4-1-4



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 8.0-12.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM8393C	8.3-9.3	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM9096C	9.0-9.6	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM95105C	9.5-10.5	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM100110C	10.0-11.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM110120C	11.0-12.0	FULL	0.5	0.9	20	20	30	20	1.25	15/3	-55-+85	1.0
CMISM80120C	8.0-12.0	FULL	0.7	1.2	14	14	26	14	1.35	15/3	-55-+85	1.0

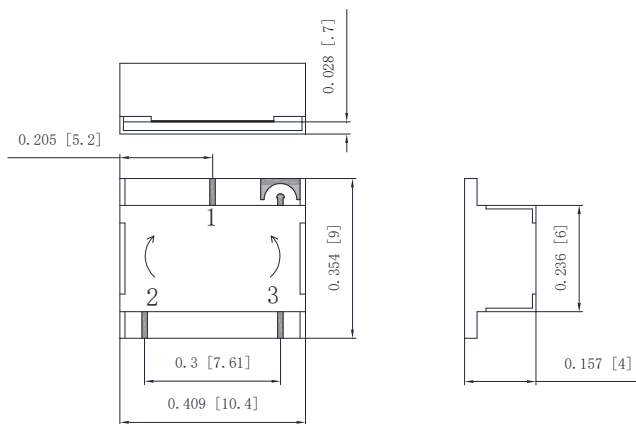
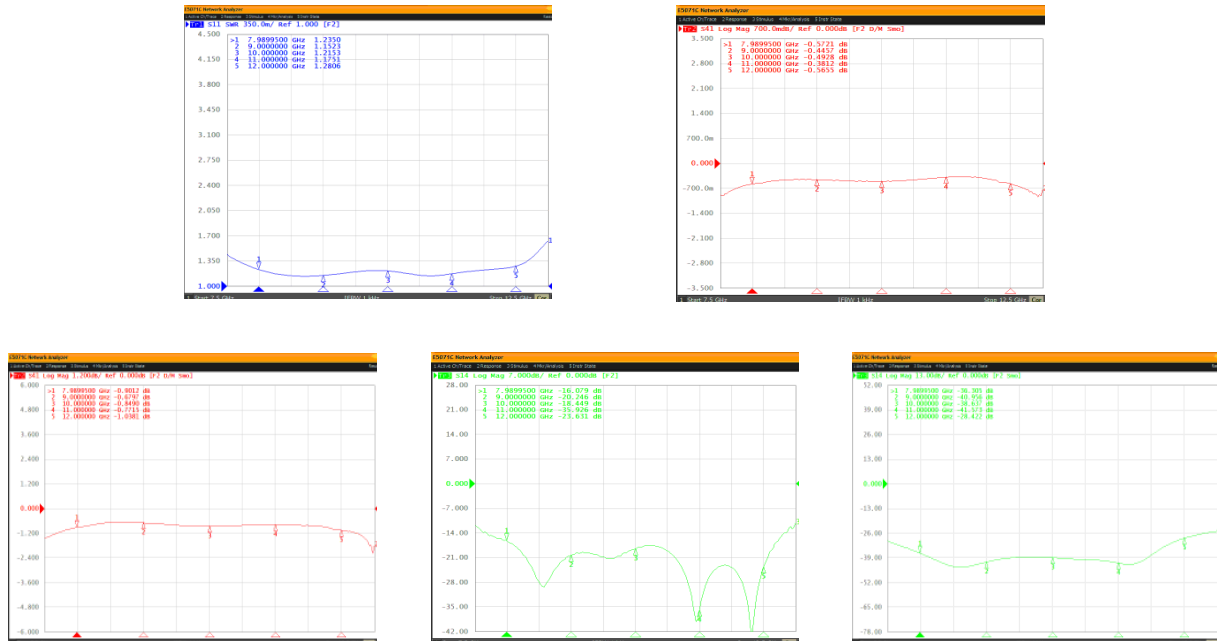


Figure 4-2-1



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM140150C	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM150160C	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM155165C	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM160175C	16.0-17.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM145180C	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	12/3	-55-+85	0.6
CMISM140150C	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	12/3	-55-+85	0.6

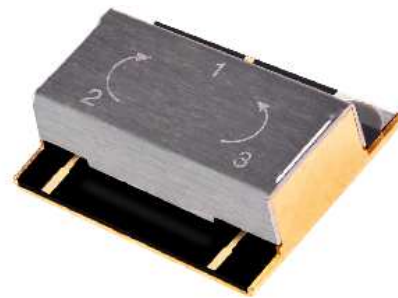
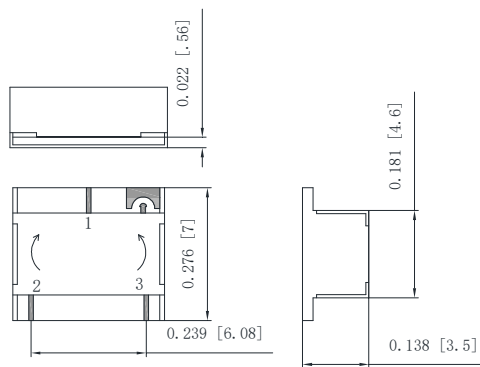
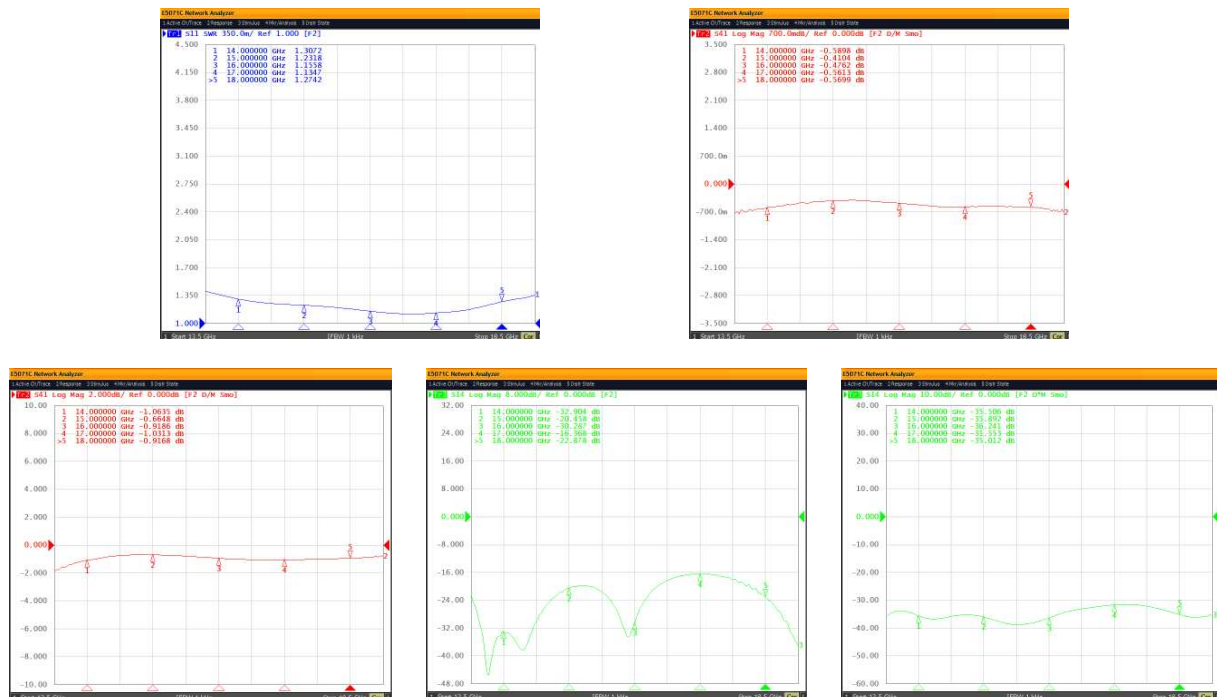


Figure 4-2-2



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 14.0-18.0GHz Magnetically Shielded Microstrip Circulator Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)		ISOLATION (dB)				VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)	WEIGHT (g)
			2-1	1-3	1-2	2-3	3-1	3-2				
CMISM140150D	14.0-15.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM150160D	15.0-16.0	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM155165D	15.5-16.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM160175D	16.0-17.5	FULL	0.5	0.9	20	20	30	20	1.25	12/3	-55-+85	0.6
CMISM145180D	15.0-18.0	FULL	0.6	1.0	18	18	30	18	1.30	12/3	-55-+85	0.6
CMISM140150D	14.0-18.0	FULL	0.7	1.1	16	16	28	16	1.35	12/3	-55-+85	0.6

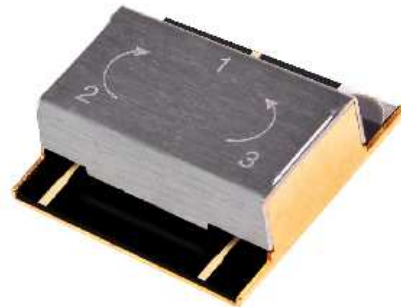
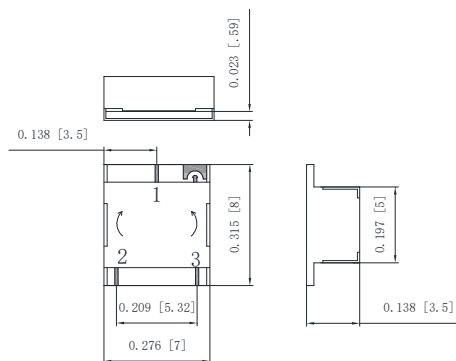
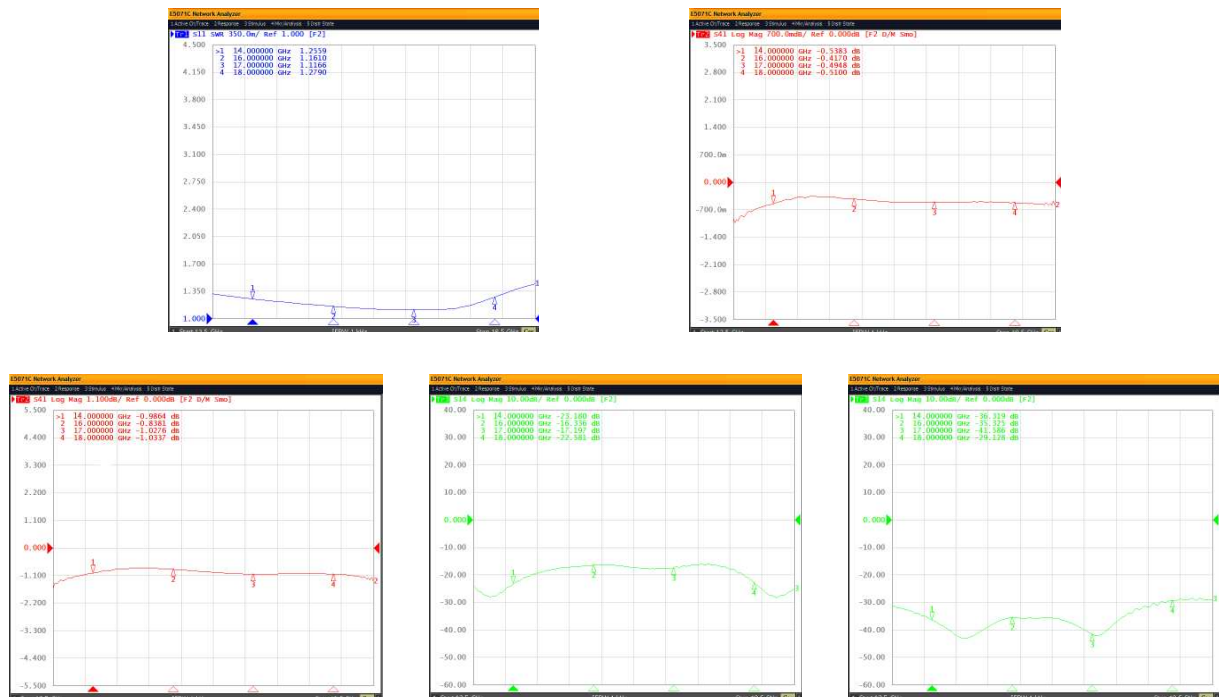


Figure 4-2-3



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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## 15.0 GHz -17.0GHz Dual Channel Circulator & Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)	ISOLATION (dB)	VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)
CMIDCM150170A	15-17	FULL	0.5、0.9	18、30	1.25	15/3	-55~+85

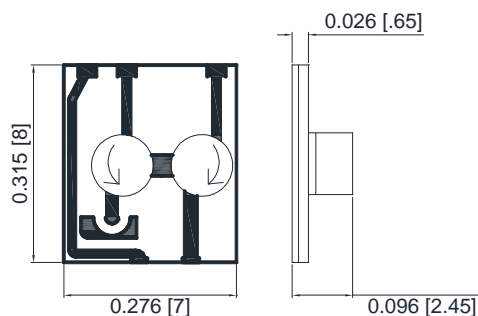


Figure 6-1

## 15.0 GHz -17.0GHz Dual Channel Circulator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)	ISOLATION (dB)	VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)
CMIDCM150170B	15-17	FULL	0.5	20	1.25	15	-55~+85

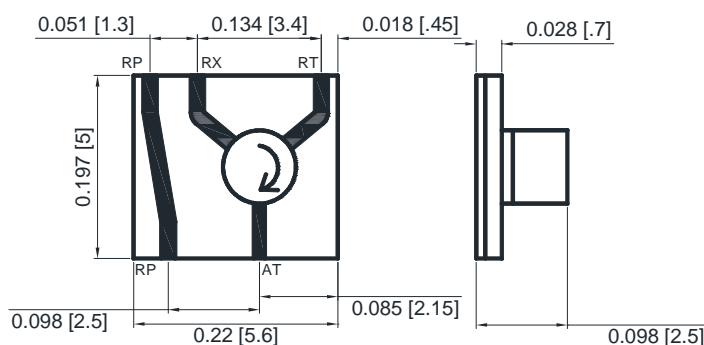


Figure 6-2

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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

15.0GHz -17.0GHz Magnetically Shielded Dual Channel Circulator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)	ISOLATION (dB)	VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)
CMIDCM150170C	15-17	FULL	0.5	20	1.25	15/3	-55~+85

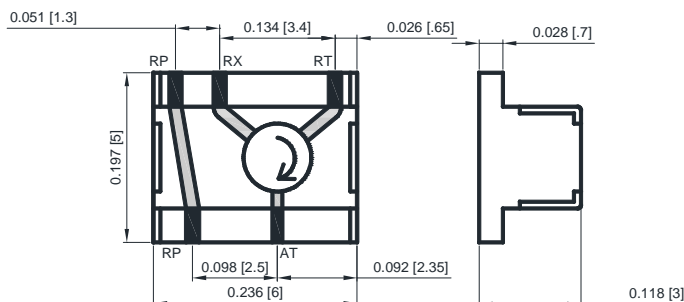


Figure 7-1

15.0GHz -17.0GHz Magnetically Shielded Dual Channel Circulator & Isolator Module

MODEL	FREQ (GHz)	BAND WIDTH	INSERTION LOSS (dB)	ISOLATION (dB)	VSWR	POWER (W) For. /Rev	OPERATING TEMP RANGE (°C)
CMIDCM150170D	15-17	FULL	0.6,1.0	16、30	1.30	15/3	-55~+85

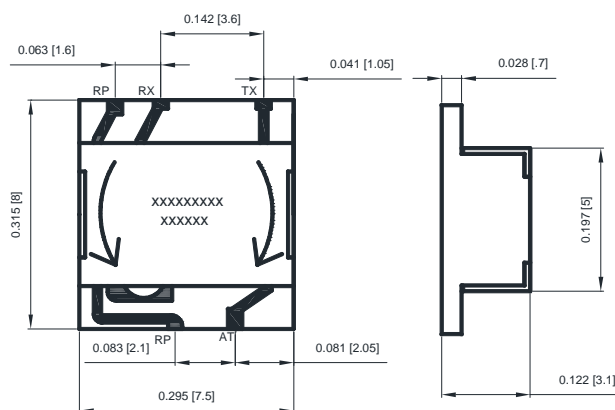


Figure 7-2

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CORRY MICRONICS, INC

# PRODUCT SPECIFICATION

## Application Notes

**Storage:** Store in dry environment (Nitrogen cupboard or drying cupboard).

**Handling:** In clean environment, manipulate product with dust-free tweezers to avoid damaging the base-plate or scratching the microstrip circuit.

**Cleaning:** This product can be cleaned in absolute ethanol or scrub the surface with absolute ethanol soaked cotton ball. Do NOT clean it with ultrasonic wave.

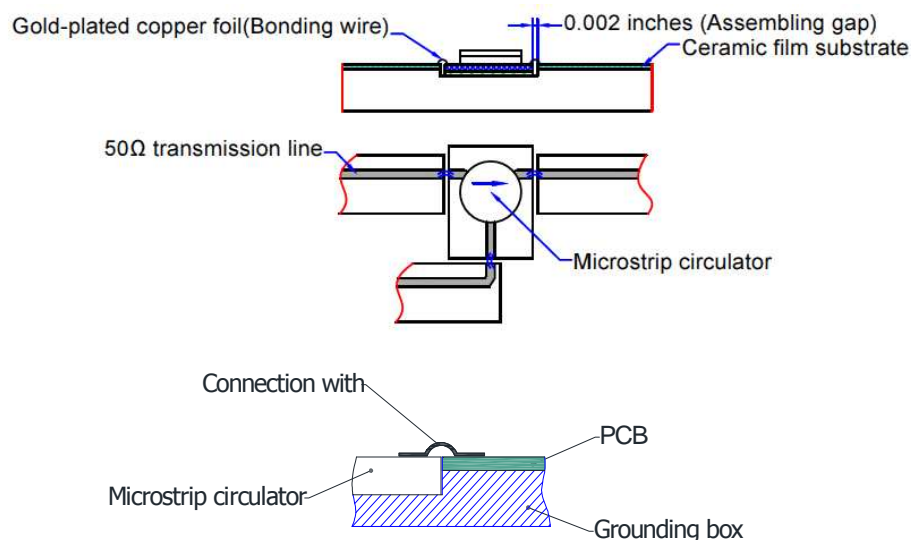
### Body Installation Methods:

- 1) Soldering (only recommended for parts up to 5GHz): Recommend using  $<183^{\circ}\text{C}$  solder such as Sn63Pb37 soldering paste. Do not leave on hotplate over  $210^{\circ}\text{C}$  for over 30 seconds.
- 2) Conductive epoxy: Spread small amount of conducting adhesive gel uniformly on the installation site. Curing time less than 2 hours ( $150^{\circ}\text{C}$ ).

### Pin connection:

- 1) Soldering: Put the unit on the  $120^{\circ}\text{C}$  hot plate to heat it. Then lap the gold plating arc copper foil connection line to microstrip line with flux. Recommend using  $183^{\circ}\text{C}$  Sn63Pb37 to solder. Soldering time not over 2 seconds.
- 2) Wire bonding: Recommend using  $25\mu\text{m}$  gold wire with bonding temp  $100\text{-}150^{\circ}\text{C}$  with sphere bonding pressure 30-55gf and carve bonding pressure 15-25gf.

**Assembly gap:** Should short the product and ceramic wafer gap. Typical value: 0.002-0.006 inches



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