

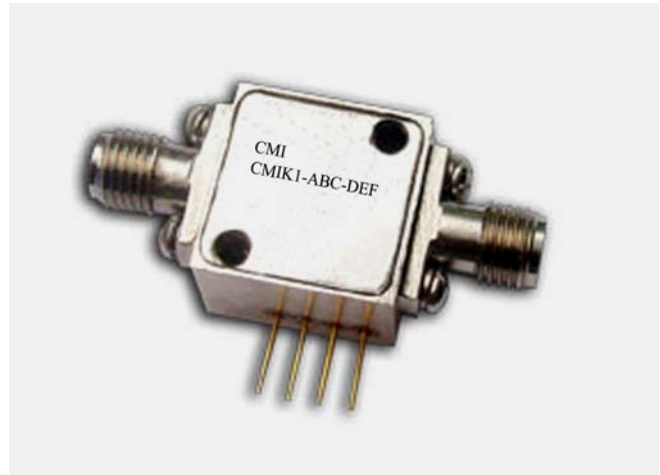
Switches - SPST

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Single Throw

The CMIK1 series of reflective and non-reflective single pole, single throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband and high performance broadband. Each switch incorporates a TTL-compatible driver for convenient system integration and operates from +5V and -5 to -15 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- **EW Systems**
- **Communications Systems**
- **Antenna Selectors**
- **Test Equipment**
- **Electronic Simulators**
- **Filter Selectors**



Ordering Information:

- **Delivery:** Stock to eight weeks
- **Additional options:** Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.

**Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407
(814) 664-7728 Fax (814) 664-4582 www.cormic.com**

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Non Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK1-A24-111	0.02 GHz – 0.5 GHz	1.4	1.5	80	100	1.0	W101,W102
CMIK1-B24-111	0.5 GHz - 1 GHz	1.5	1.5	80	100	1.0	W101,W102
CMIK1-C24-111	1 GHz - 2GHz	1.0	1.5	80	50	1.0	W101,W102
CMIK1-D24-111	2 GHz - 4GHz	1.6	1.5	80	50	1.0	W101,W102
CMIK1-E23-111	4 GHz - 8GHz	2.0	1.6	60	50	1.0	W101,W102
CMIK1-F23-111	8GHz - 12 GHz	2.5	1.5	60	50	0.5	W101,W102
CMIK1-G23-111	1 2GHz - 18 GHz	3.2	2.0	60	50	0.5	W101,W102
CMIK1-123-111	0.02 GHz - 3GHz	2.4	2.0	60	200	1.0	W101,W102
CMIK1-223-111	2 GHz - 18GHz	3.1	2.2	60	50	1.0	W101,W102

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK1-A14-111	0.02 GHz – 0.5 GHz	1.2	1.5	80	100	1.0	W101,W102
CMIK1-B14-111	0.5 GHz - 1 GHz	1.3	1.5	80	100	1.0	W101,W102
CMIK1-C14-111	1 GHz - 2GHz	0.8	1.5	80	50	1.0	W101.W102
CMIK1-D14-111	2 GHz - 4GHz	1.2	1.5	80	50	1.0	W101.W102
CMIK1-E14-111	4 GHz - 8GHz	1.5	1.6	60	50	1.0	W101.W102
CMIK1-F13-111	8GHz - 12 GHz	1.8	1.7	60	50	1.0	W101.W102
CMIK1-G13-111 2	12GHz - 18 GHz	2.2	2.0	60	50	0.5	W101.W10
CMIK1-113-111	0.02 GHz - 3GHz	2.2	2.0	60	200	1.0	W101.W102
CMIK1-213-111	2 GHz - 18GHz	2.2	2.2	55	50	1.0	W101.W102
CMIK1-214-111	2 GHz - 18GHz	2.4	2.2	80	50	1.0	W101.W102

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V 30mA max. -5.0 +/- .5V @ 30mA max.	Case Style: Outline W101,W102
Control: TTL Logic 0: Low Loss TTL Logic 1: Isolation	Finish: gold plating for brass material *
Power Handling 1 Watt	Connectors: SMA female per MIL-C-39012
	Bias and Control: 0.020"dia x 0.15"long solder pins
	Weight:
	Mounting: (4) 0.100" dia through holes.

* Passivation for aluminum material.

Other finish is available according to the customer's requirements.

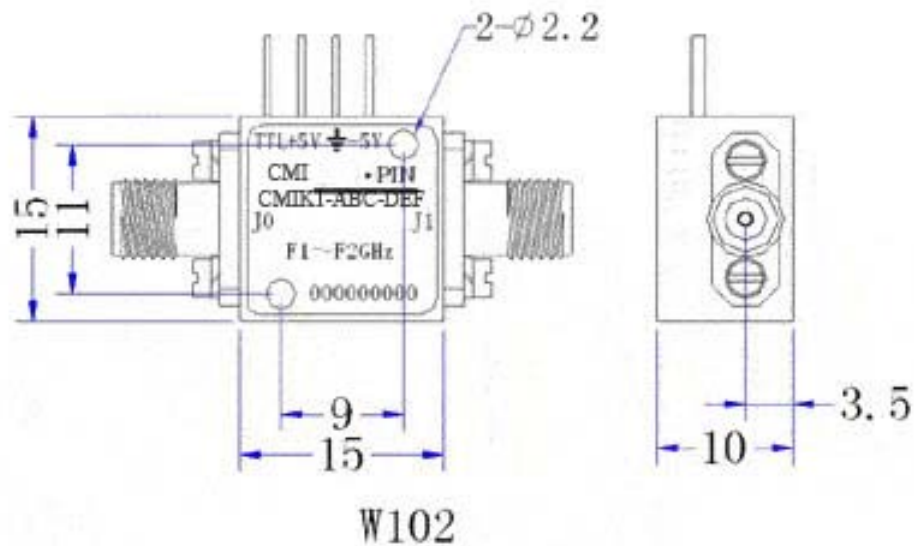
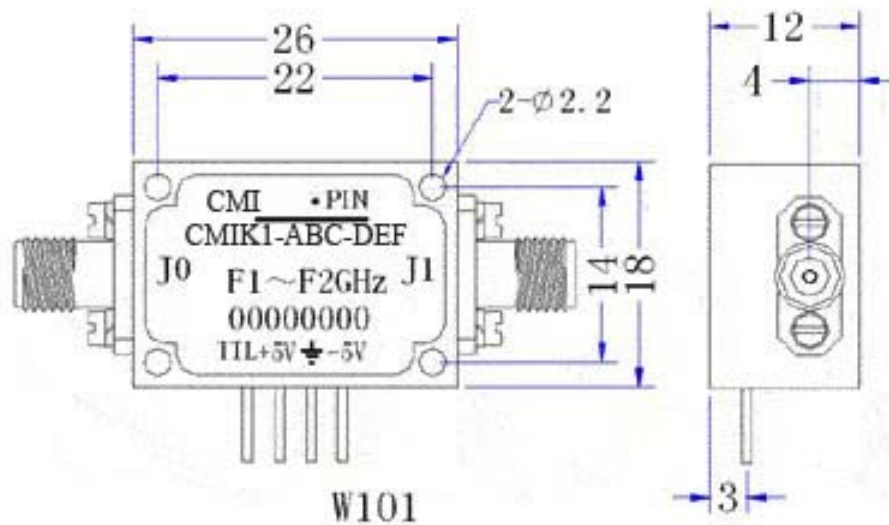
Note:

For faster speed, other power supply and controls, higher power handling and isolation, non driven; please contact the factory to discuss your requirements.

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SPDT

Pin-Diode Non-Reflective and Reflective Switches- Single Pole Two Throw

The CMIK2 series of reflective and non-reflective single pole, two throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and -5 to -15DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Single TTL control option: Add "-1" to part number when ordering.
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK2-A24-111	0.02 GHz – 0.5 GHz	1.5	1.5	80	100	1.0	W201.W202
CMIK2-B24-111	0.5 GHz - 1 GHz	1.6	1.5	80	100	1.0	W201.W202
CMIK2-C24-111	1 GHz - 2GHz	1.2	1.5	80	50	1.0	W201.W202
CMIK2-D24-111	2 GHz - 4GHz	1.8	1.5	80	50	1.0	W201.W202
CMIK2-E23-111	4 GHz - 8GHz	2.0	1.6	60	50	1.0	W201.W202
CMIK2-F23-111	8GHz - 12 GHz	2.6	1.5	60	50	0.5	W201.W202
CMIK2-G23-111	12GHz - 18 GHz	3.2	2.0	60	50	0.5	W201.W202
CMIK2-123-111	0.02 GHz - 3GHz	2.5	2.0	60	200	1.0	W201.W202
CMIK2-223-111	2 GHz - 18GHz	3.2	2.2	60	50	1.0	W201.W202

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK2-A14-111	0.02 GHz – 0.5 GHz	1.3	1.5	80	100	1.0	W201.W202
CMIK2-B14-111	0.5 GHz - 1 GHz	1.4	1.5	80	100	1.0	W201.W202
CMIK2-C14-111	1 GHz - 2GHz	1.0	1.5	80	50	1.0	W201.W202
CMIK2-D14-111	2 GHz - 4GHz	1.3	1.5	80	50	1.0	W201.W202
CMIK2-E14-111	4 GHz - 8GHz	1.6	1.6	60	50	1.0	W201.W202
CMIK2-F13-111	8GHz - 12 GHz	2.0	1.7	60	50	1.0	W201.W202
CMIK2-G13-111	12GHz - 18 GHz	2.5	2.0	60	50	0.5	W201.W202
CMIK2-113-111	0.02 GHz - 3GHz	2.3	2.0	60	200	1.0	W201.W202
CMIK2-213-111	2 GHz - 18GHz	2.4	2.2	60	50	1.0	W201.W202
CMIK2-214-111	2 GHz - 18GHz	2.6	2.2	80	50	1.0	W201.W202

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 80mA max. -5.0 +/- .5V @ 40mA max.	Case Style: Outline W201 (Standard) Outline w202
Control: TTL Logic 0: Low Loss	Finish: gold plating for brass material *
Standard TTL Logic 1: Isolation	Connectors: SMA female per MIL-C-39012
Version C1 Controls J2 - J1	Bias and Control: 0.020" dia x 0.15" long solder pins
C2 Controls J3 - J1	Weight:
Power hanging 1 Watts CW	Mounting: (4) 2.2mm dia through holes.

*Passivation for aluminum material.

Other finish is available according to the customer's requirements.

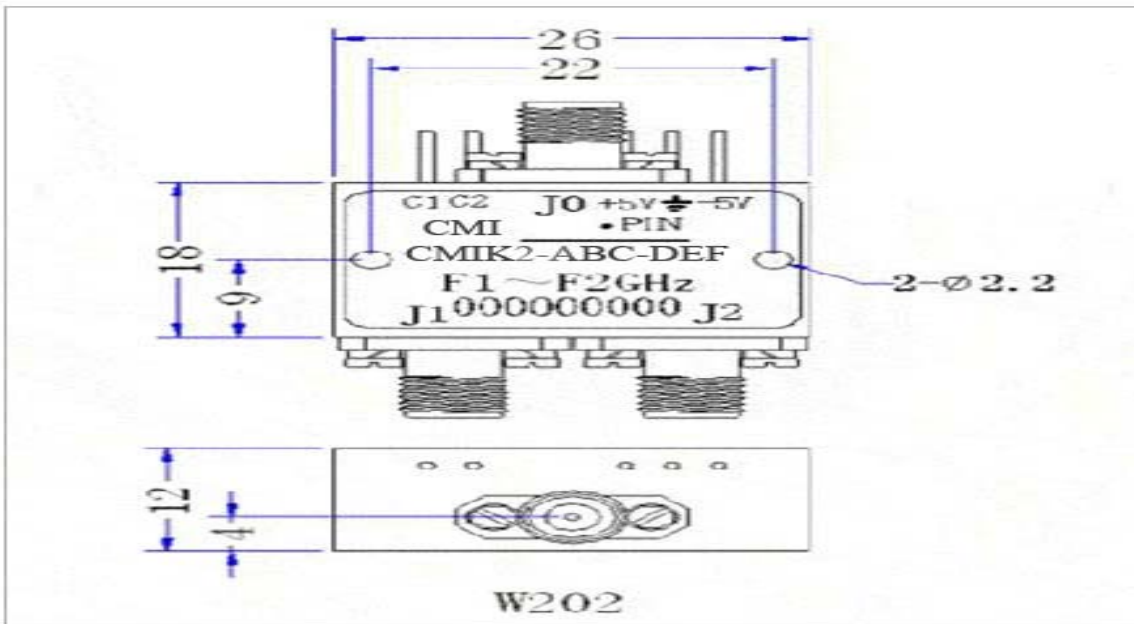
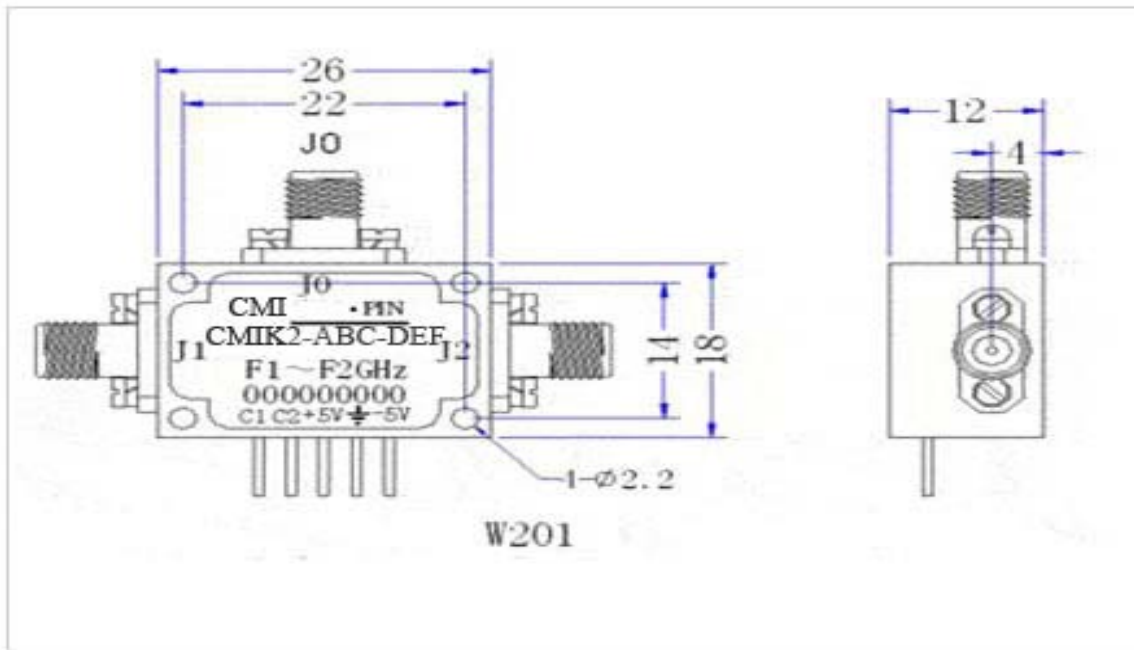
Note:

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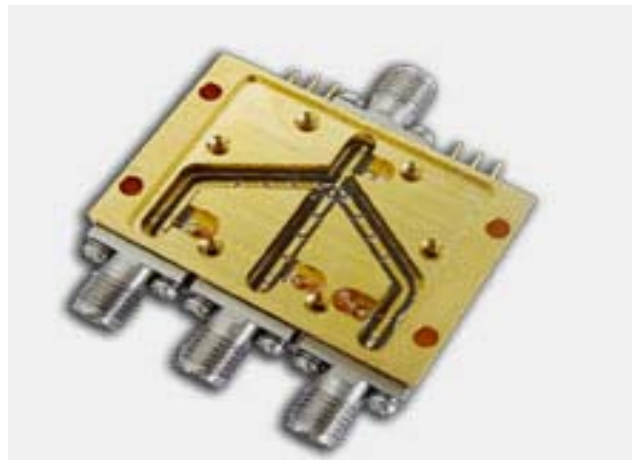
SP3T

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Three Throw

The CMIK3 series of reflective and non-reflective single pole, three throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and -5 to -15 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK3-A24-111	0.02 GHz – 0.5 GHz	1.5	1.5	80	100	1.0	W201.W202
CMIK3-B24-111	0.5 GHz - 1 GHz	1.6	1.5	80	100	1.0	W201.W202
CMIK3-C24-111	1 GHz - 2GHz	1.4	1.5	80	50	1.0	W201.W202
CMIK3-D24-111	2 GHz - 4GHz	1.8	1.5	80	50	1.0	W201.W202
CMIK3-E23-111	4 GHz - 8GHz	2.1	1.6	60	50	1.0	W201.W202
CMIK3-F23-111	8GHz - 12 GHz	2.7	1.5	60	50	0.5	W201.W202
CMIK3-G23-111	12GHz - 18 GHz	3.3	2.0	60	50	0.5	W201.W202
CMIK3-123-111	0.02 GHz - 3GHz	2.6	2.0	60	200	1.0	W201.W202
CMIK3-223-111	2 GHz - 18GHz	3.3	2.2	60	50	1.0	W201.W202

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK3-A14-111	0.02 GHz – 0.5 GHz	1.5	1.5	80	100	1.0	W201.W202
CMIK3-B14-111	0.5 GHz - 1 GHz	1.6	1.5	80	100	1.0	W201.W202
CMIK3-C14-111	1 GHz - 2GHz	1.4	1.5	80	50	1.0	W201.W202
CMIK3-D14-111	2 GHz - 4GHz	1.8	1.5	80	50	1.0	W201.W202
CMIK3-E14-111	4 GHz - 8GHz	2.1	1.6	60	50	1.0	W201.W202
CMIK3-F13-111	8GHz - 12 GHz	2.7	1.7	60	50	1.0	W201.W202
CMIK3-G13-111	12GHz - 18 GHz	3.3	2.0	60	50	0.5	W201.W202
CMIK3-113-111	0.02 GHz - 3GHz	2.6	2.0	60	200	1.0	W201.W202
CMIK3-213-111	2 GHz - 18GHz	3.3	2.2	60	50	1.0	W201.W202
CMIK3-214-111	2 GHz - 18GHz	2.7	2.2	80	50	1.0	W301.W302

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 120mA max. -5.0 +/- 0.5V @ 50mA max.	Case Style: Outline W301,W302
Control: TTL Logic 0: Low Loss TTL Logic 1: Isolation C1 Controls J1 - J0 C2 Controls J2 - J0 C3 Controls J3 - J0	Finish: gold plating for brass material * Connectors: SMA female per MIL-C-39012 Bias and Control: 0.020"dia x 0.15" long solder pins
Power Handling 1 Watt	Weight: Mounting: (4) 2.2mm dia through holes

* Passivation for aluminum material.
Other finish is available according to the customer's requirements.

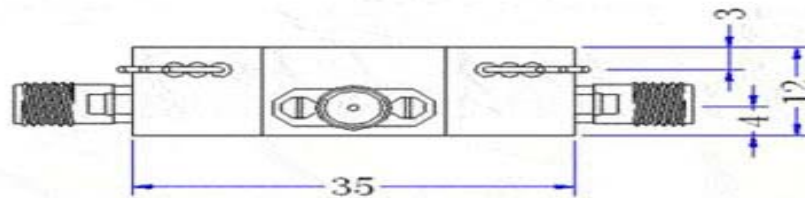
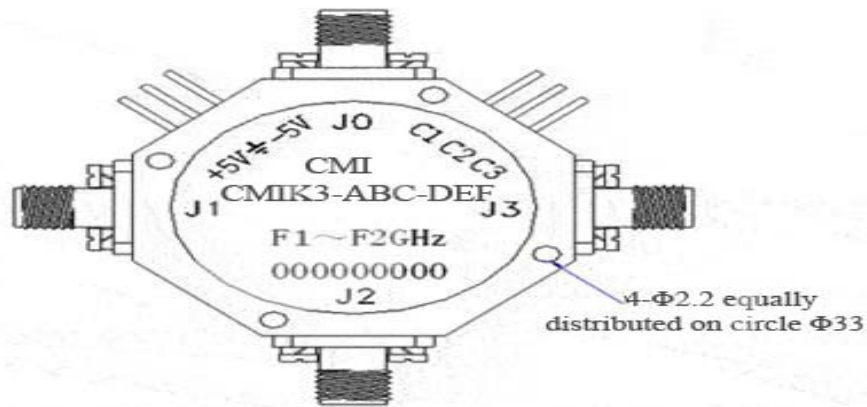
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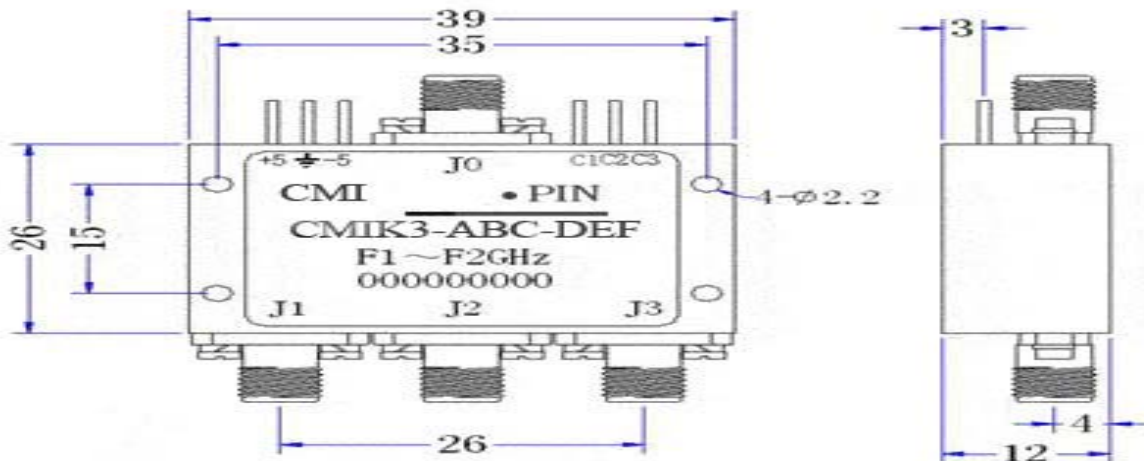
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W301

W301



W302

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SP4T

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Four Throw

The CMIK4 series of reflective and non-reflective single pole, four throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and -5 to -18 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK4-A24-111	0.02 GHz – 0.5 GHz	1.6	1.5	80	100	1.0	W401,W402
CMIK4-B24-111	0.5 GHz - 1 GHz	1.7	1.5	80	100	1.0	W401,W402
CMIK4-C24-111	1 GHz - 2GHz	1.4	1.5	80	50	1.0	W401,W402
CMIK4-D24-111	2 GHz - 4GHz	1.8	1.5	80	50	1.0	W401,W402
CMIK4-E23-111	4 GHz - 8GHz	2.2	1.6	60	50	1.0	W401,W402
CMIK4-F23-111	8GHz - 12 GHz	2.8	1.5	60	50	0.5	W401,W402
CMIK4-G23-111	1 2GHz - 18 GHz	3.5	2.0	60	50	0.5	W401,W402
CMIK4-123-111	0.02 GHz - 3GHz	2.7	2.0	60	200	1.0	W401,W402
CMIK4-223-111	2 GHz - 18GHz	3.5	2.2	60	50	1.0	W401,W402

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Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK4-A24-111	0.02 GHz – 0.5 GHz	1.5	1.5	80	100	1.0	W401,W402
CMIK4-B24-111	0.5 GHz - 1 GHz	1.6	1.5	80	100	1.0	W401,W402
CMIK4-C24-111	1 GHz - 2GHz	1.2	1.5	80	50	1.0	W401,W402
CMIK4-D24-111	2 GHz - 4GHz	1.4	1.5	80	50	1.0	W401,W402
CMIK4-E23-111	4 GHz - 8GHz	1.8	1.6	60	50	1.0	W401,W402
CMIK4-F23-111	8GHz - 12 GHz	2.1	1.7	60	50	0.5	W401,W402
CMIK4-G23-111	12GHz - 18 GHz	2.8	2.0	60	50	0.5	W401,W402
CMIK4-123-111	0.02 GHz - 3GHz	2.5	2.0	60	200	1.0	W401,W402
CMIK4-223-111	2 GHz - 18GHz	2.7	2.2	60	50	1.0	W401,W402
CMIK1-214-111	2 GHz - 18GHz	2.9	2.2	80	50	1.0	W401,W402

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 200mA max. -5.0 +/- .5V @ 50mA max.	Case Style: Outline W603,W602(Standard)
Control: TTL Logic 0: Low Loss	Finish: gold plating for brass material *
TTL Logic 1: Isolation	Bias and Control: 0.020" dia x 0.15" long solder pins
C1 Controls J1 – J0	Weight:
C2 Controls J2 – J0	Mounting: (4) 2.2 mm dia through holes
C3 Controls J3 – J0	
C4 Controls J4 – J0	
Power Handling: 1 watt	

*Passivation for aluminum material.

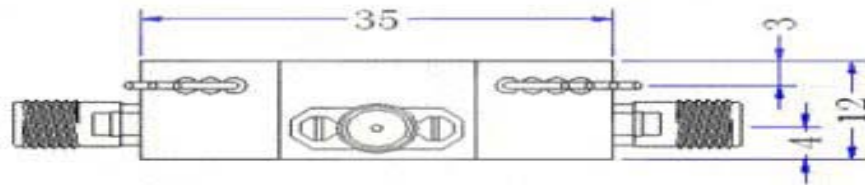
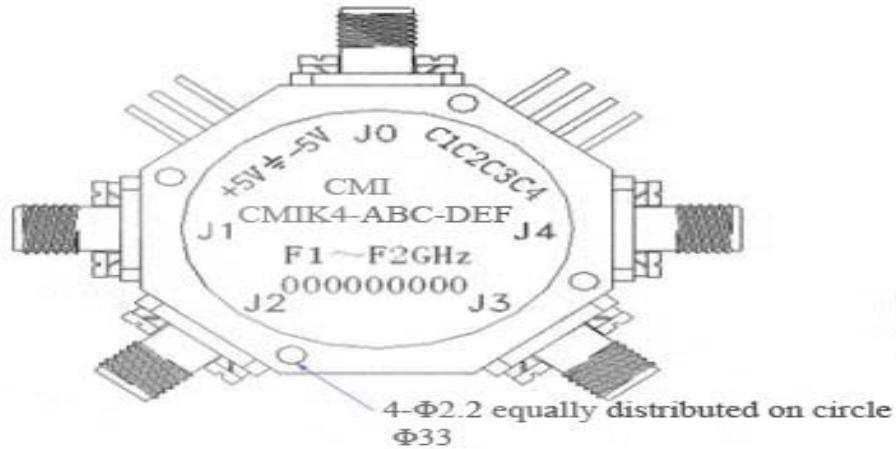
Other finish is available according to the customer's requirements.

Note: For faster speed, other power supply and controls, higher power handling and isolation, non driven; please contact the factory to discuss your requirements.

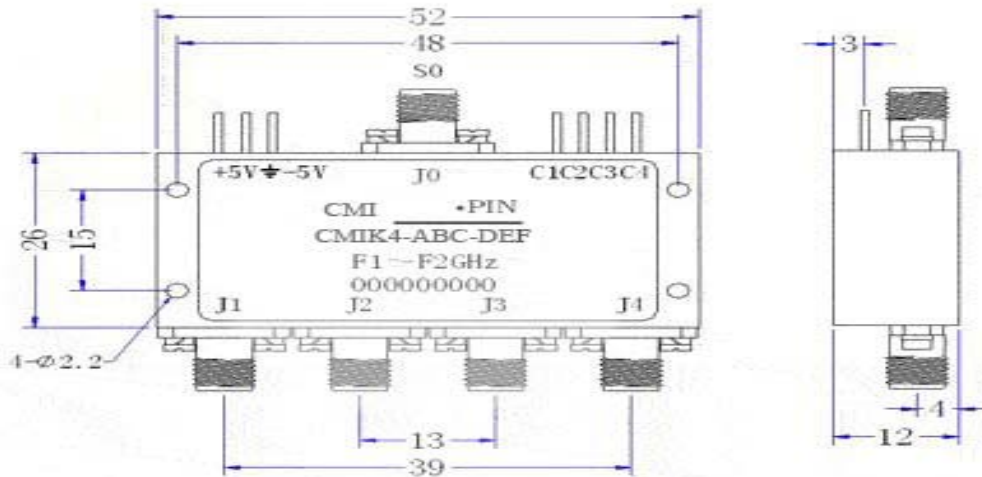
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W401



W402

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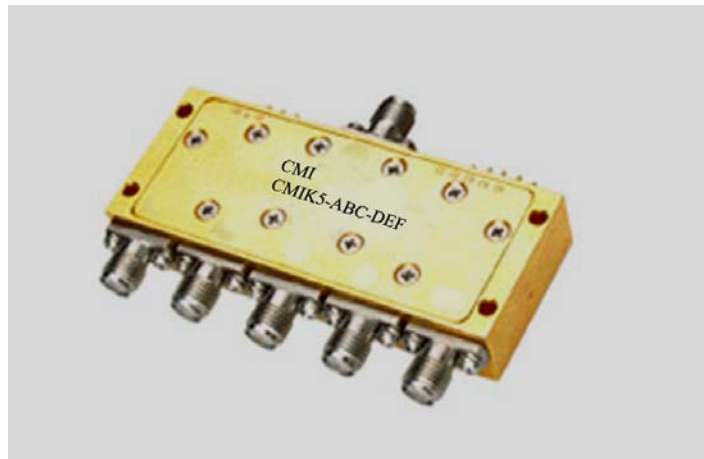
SP5T

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Five Throw

The CMIK5 series of reflective and non-reflective single pole, five throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and -5 to -15 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation(dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK5-A24-111	0.02 GHz – 0.5 GHz	1.6	1.5	80	100	1.0	W501,W502
CMIK5-B24-111	0.5 GHz - 1 GHz	1.7	1.5	80	100	1.0	W501,W502
CMIK5-C24-111	1 GHz - 2GHz	1.5	1.5	80	50	1.0	W501,W502
CMIK5-D24-111	2 GHz - 4GHz	1.9	1.5	80	50	1.0	W501,W502
CMIK5-E23-111	4 GHz - 8GHz	2.3	1.7	60	50	1.0	W501,W502
CMIK5-F23-111	8GHz - 12 GHz	2.9	1.5	60	50	0.5	W501,W502
CMIK5-G23-111	1 2GHz - 18 GHz	3.5	2.0	60	50	0.5	W501,W502
CMIK5-123-111	0.02 GHz - 3GHz	2.8	2.0	60	200	1.0	W501,W502
CMIK5-223-111	2 GHz - 18GHz	3.6	2.2	60	50	1.0	W501,W502

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation(dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK5-A24-111	0.02 GHz – 0.5 GHz	1.5	1.5	80	100	1.0	W501,W502
CMIK5-B24-111	0.5 GHz - 1 GHz	1.6	1.5	80	100	1.0	W501,W502
CMIK5-C24-111	1 GHz - 2GHz	1.3	1.5	80	50	1.0	W501,W502
CMIK5-D24-111	2 GHz - 4GHz	1.5	1.5	80	50	1.0	W501,W502
CMIK5-E23-111	4 GHz - 8GHz	1.8	1.7	60	50	1.0	W501,W502
CMIK5-F23-111	8GHz - 12 GHz	2.1	1.5	60	50	0.5	W501,W502
CMIK5-G23-111	12GHz - 18 GHz	2.9	2.0	60	50	0.5	W501,W502
CMIK5-123-111	0.02 GHz - 3GHz	2.6	2.0	60	200	1.0	W501,W502
CMIK5-223-111	2 GHz - 18GHz	2.8	2.2	60	50	1.0	W501,W502
CMIK5-214-111	2 GHz - 18GHz	3.0	2.2	80	50	1.0	W501,W502

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 200mA max. -5.0 +/- .5V @ 50mA max.	Case Style: Outline W603,W602(Standard)
Control: TTL Logic 0: Low Loss TTL Logic 1: Isolation C1 Controls J1 – J0 C2 Controls J2 – J0 C3 Controls J3 – J0 C4 Controls J4 – J0	Finish: gold plating for brass material * Connectors: SMA female per MIL-C-39012
Power Handling: 1 watt	Bias and Control: 0.020" dia x 0.15" long solder pins Weight: Mounting: (4) 2.2 mm dia through holes

*Passivation for aluminum material.

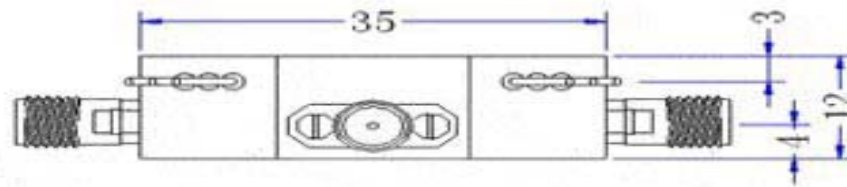
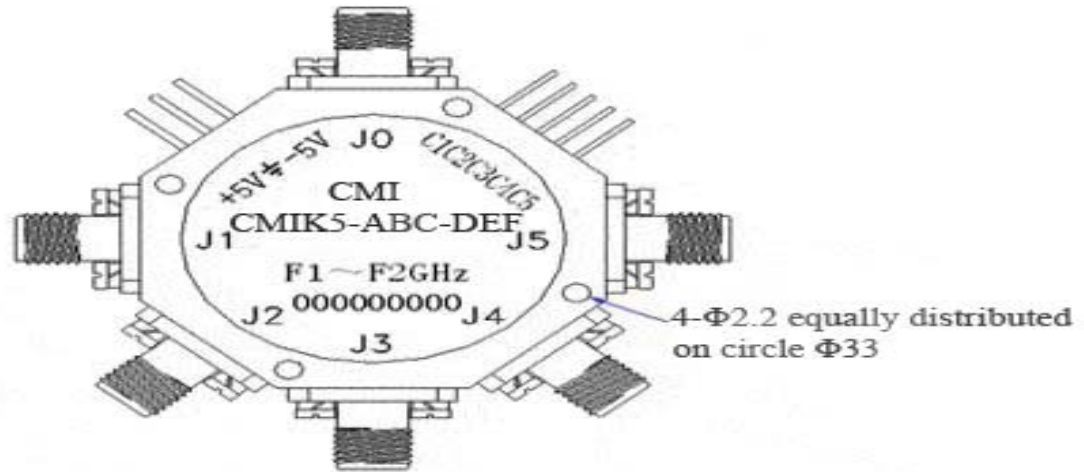
Other finish is available according to the customer's requirements.

Note: For faster speed, other power supply and controls, higher power handling and isolation, non driven; please contact the factory to discuss your requirements.

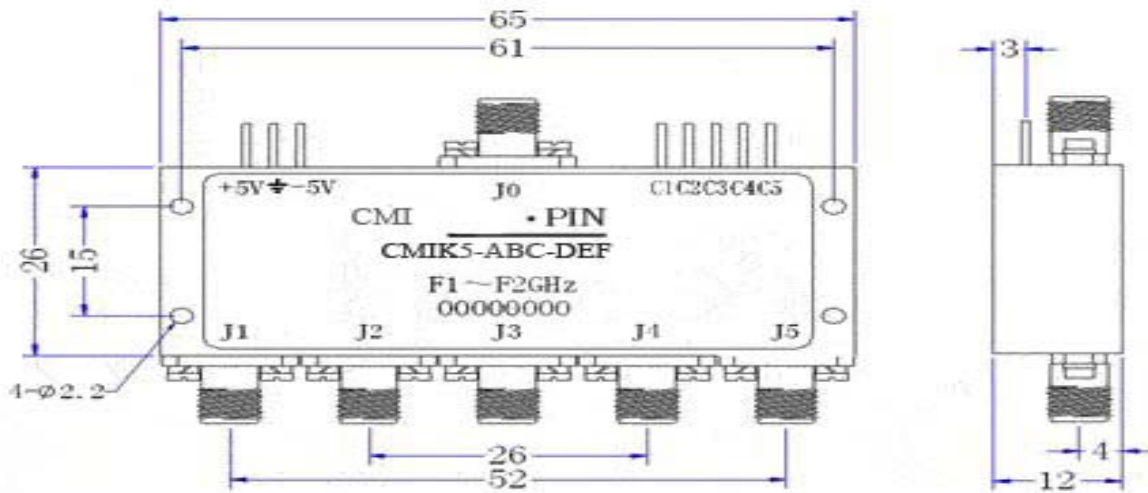
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W501



W502

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SP6T

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Six Throw

The CMIK6 series of reflective and non-reflective single pole, six throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and -15 to -18 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK6-A24-111	0.02 GHz – 0.5 GHz	1.7	1.5	80	100	1.0	W602,W603
CMIK6-B24-111	0.5 GHz - 1 GHz	1.8	1.5	80	100	1.0	W602,W603
CMIK6-C24-111	1 GHz - 2GHz	1.6	1.5	80	50	1.0	W602,W603
CMIK6-D24-111	2 GHz - 4GHz	2.0	1.5	80	50	1.0	W602,W603
CMIK6-E23-111	4 GHz - 8GHz	2.4	1.7	60	50	1.0	W602,W603
CMIK6-F23-111	8GHz - 12 GHz	3.0	1.5	60	50	0.5	W602,W603
CMIK6-G23-111	1 2GHz - 18 GHz	3.8	2.0	60	50	0.5	W602,W603
CMIK6-123-111	0.02 GHz - 3GHz	2.9	2.0	60	200	1.0	W602,W603
CMIK6-223-111	2 GHz - 18GHz	3.8	2.2	60	50	1.0	W602,W603

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK6-A14-111	0.02 GHz – 0.5 GHz	1.6	1.5	80	100	1.0	W602,W603
CMIK6-B14-111	0.5 GHz - 1 GHz	1.7	1.5	80	100	1.0	W602,W603
CMIK6-C14-111	1 GHz - 2GHz	1.4	1.5	80	50	1.0	W602,W603
CMIK6-D14-111	2 GHz - 4GHz	1.6	1.5	80	50	1.0	W602,W603
CMIK6-E14-111	4 GHz - 8GHz	2.0	1.6	60	50	1.0	W602,W603
CMIK6-F13-111	8GHz - 12 GHz	2.3	1.7	60	50	1.0	W602,W603
CMIK6-G13-111	1 2GHz - 18 GHz	3.2	2.0	60	50	0.5	W602,W603
CMIK6-113-111	0.02 GHz - 3GHz	2.7	2.0	60	200	1.0	W602,W603
CMIK6-213-111	2 GHz - 18GHz	3.0	2.2	60	50	1.0	W602,W603
CMIK6-214-111	2 GHz - 18GHz	3.2	2.2	80	50	1.0	W602,W603

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PRODUCT SPECIFICATION

ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 200mA max. -5.0 +/- .5V @ 50mA max.	Case Style: Outline W603,W602(Standard)
Control: TTL Logic 0: Low Loss TTL Logic 1: Isolation C1 Controls J1 – J0 C2 Controls J2 – J0 C3 Controls J3 – J0 C4 Controls J4 – J0 C5 Controls J5 – J0 C6 Controls J6 – J0	Finish: gold plating for brass material *
	Connectors: SMA female per MIL-C-39012
	Bias and Control: 0.020" dia x 0.15" long solder pins
	Weight: 60 grams max.
	Mounting: (3 for W602, 4 for W603) 2.2 mm dia. through holes

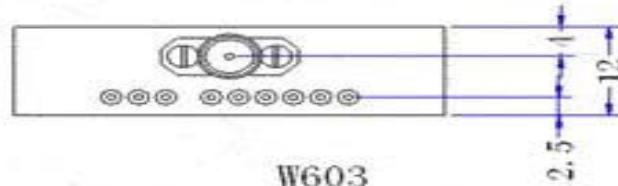
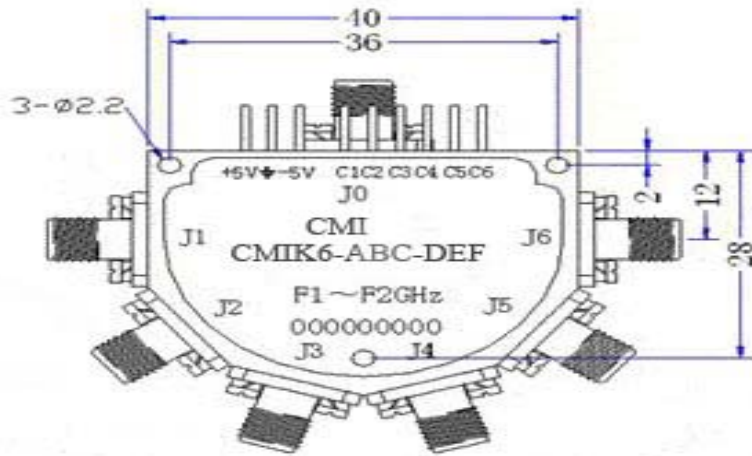
*Passivation for aluminum material.
Other finish is available according to the customer's requirements.

Note: For faster speed, other power supply and controls, higher power handing and isolation, non driven; please contact the factory to discuss your requirements

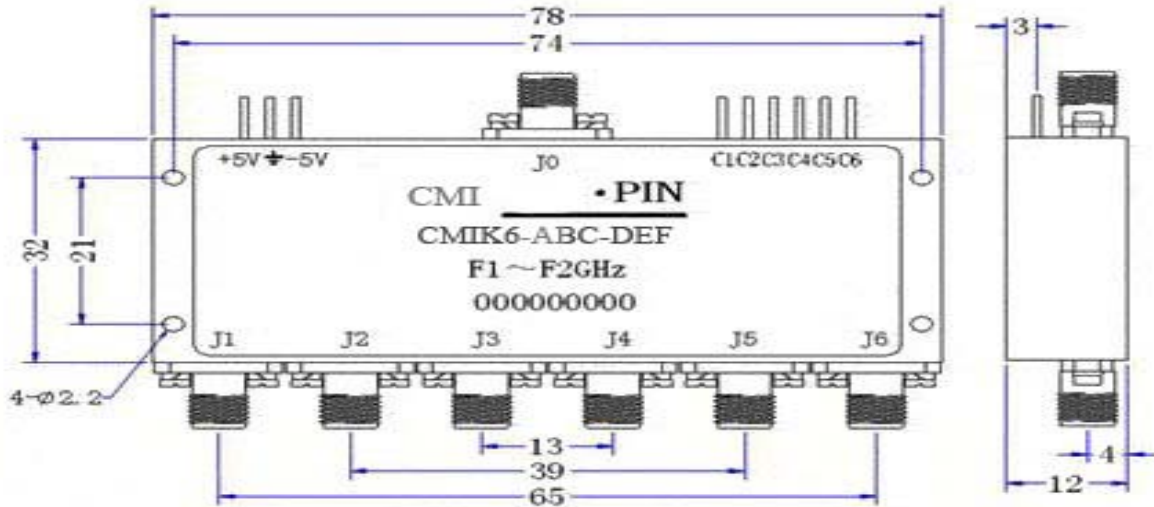
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W603



W602

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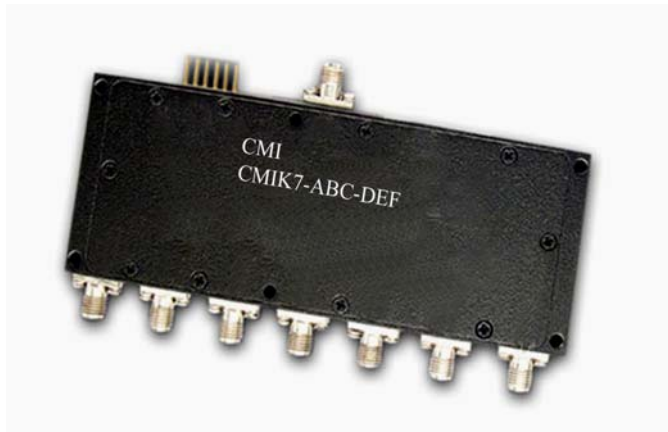
SP7T

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Seven Throw

The CMIK7 series of reflective and non-reflective single pole, seven throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and -5 to -18 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK7-A24-111	0.02 GHz – 0.5 GHz	1.8	1.5	80	100	1.0	W702,W703
CMIK7-B24-111	0.5 GHz - 1 GHz	1.9	1.5	80	100	1.0	W702,W703
CMIK7-C24-111	1 GHz - 2GHz	1.6	1.5	80	50	1.0	W702,W703
CMIK7-D24-111	2 GHz - 4GHz	2.0	1.5	80	50	1.0	W702,W703
CMIK7-E23-111	4 GHz - 8GHz	2.4	1.7	60	50	1.0	W702,W703
CMIK7-F23-111	8GHz - 12 GHz	3.1	1.5	60	50	0.5	W702,W703
CMIK7-G23-111	1 2GHz - 18 GHz	4.0	2.0	60	50	0.5	W702,W703
CMIK7-123-111	0.02 GHz - 3GHz	3.0	2.0	60	200	1.0	W702,W703
CMIK7-223-111	2 GHz - 18GHz	4.2	2.2	60	50	1.0	W702,W703

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK7-A14-111	0.02 GHz – 0.5 GHz	1.7	1.5	80	100	1.0	W702,W703
CMIK7-B14-111	0.5 GHz - 1 GHz	1.8	1.5	80	100	1.0	W702,W703
CMIK7-C14-111	1 GHz - 2GHz	1.4	1.5	80	50	1.0	W702,W703
CMIK7-D14-111	2 GHz - 4GHz	1.6	1.5	80	50	1.0	W702,W703
CMIK7-E14-111	4 GHz - 8GHz	2.0	1.6	60	50	1.0	W702,W703
CMIK7-F13-111	8GHz - 12 GHz	2.5	1.7	60	50	1.0	W702,W703
CMIK7-G13-111	1 2GHz - 18 GHz	3.3	2.0	60	50	0.5	W702,W703
CMIK7-113-111	0.02 GHz - 3GHz	2.8	2.0	60	200	1.0	W702,W703
CMIK7-213-111	2 GHz - 18GHz	3.2	2.2	60	50	1.0	W702,W703
CMIK7-214-111	2 GHz - 18GHz	3.4	2.2	80	50	1.0	W702,W703

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 200mA max. -5.0 +/- .5V @ 50mA max.	CaseStyle: outlineW702.W703(Standard)
Control: TTL Logic 0: Low Loss TTL Logic 1: Isolation C1 Controls J1 – J0 C2 Controls J2 – J0 C3 Controls J3 – J0 C4 Controls J4 – J0 C5 Controls J5 – J0 C6 Controls J6 – J0 C7 Controls J7 – J0 C8 Controls J8 – J0	Finish: gold plating for brass material*
Power Handling: 1 watt	Bias and Control: 0.020" dia x 0.15" long solder pins
	Weight: grams max. Mounting: (4) 2.2 mm dia through holes

*Passivation for aluminum material.

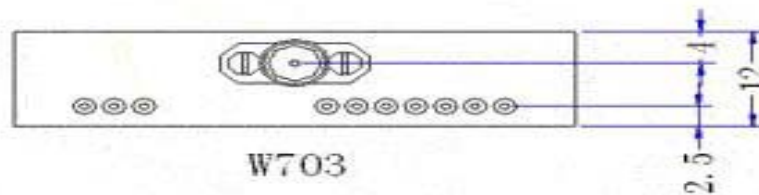
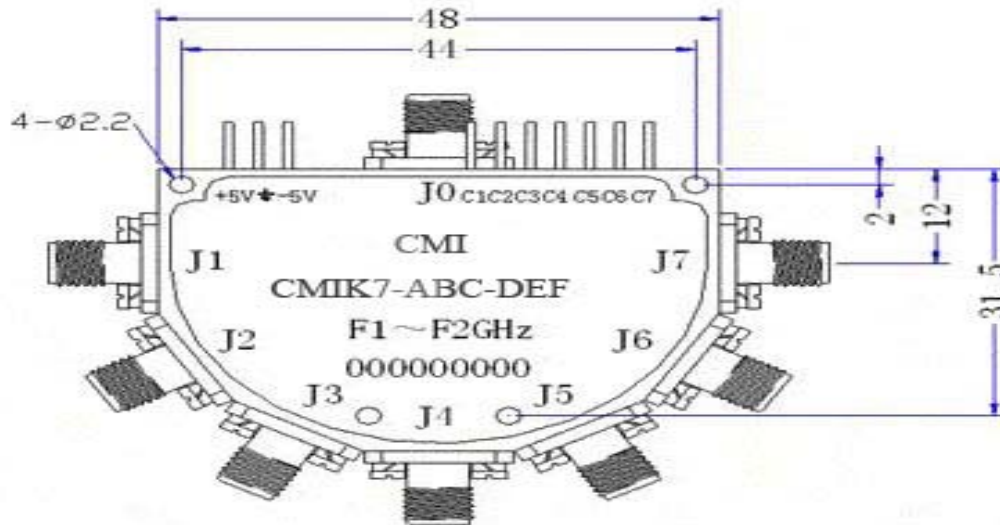
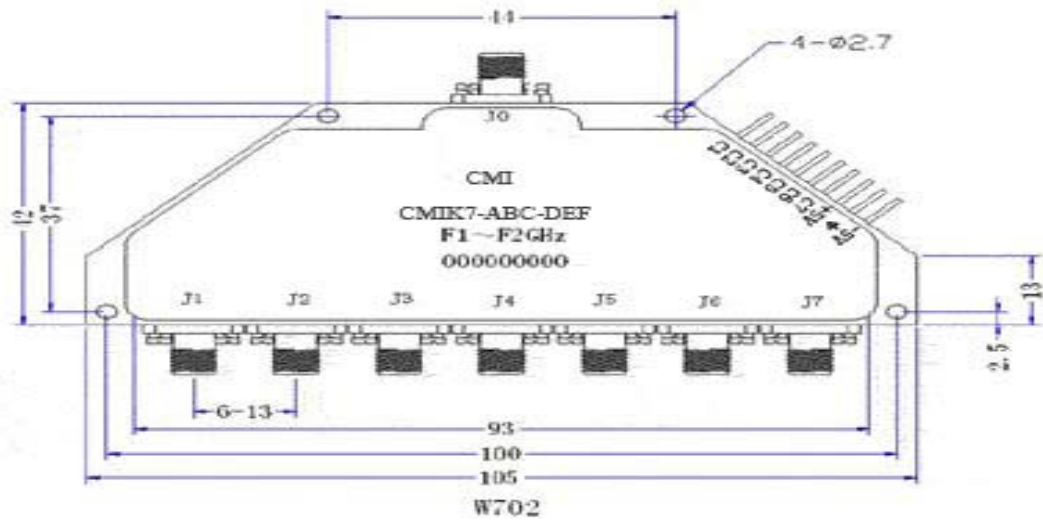
Other finish is available according to the customer's requirements.

Note: For faster speed, other power supply and controls, higher power handling and isolation, non driven; please contact the factory to discuss your requirements.

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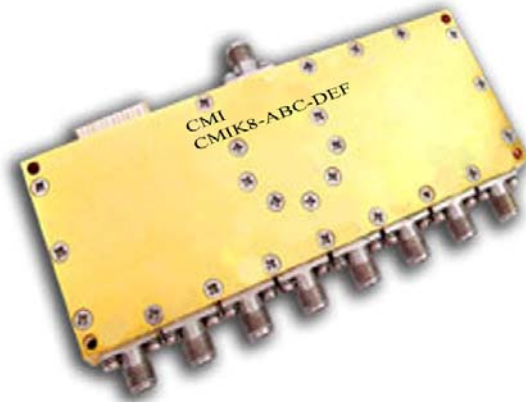
SP8T

Pin-Diode Non-Reflective and Reflective Switches - Single Pole Eight Throw

The CMIK8 series of reflective and non-reflective single pole, eight throw pin-diode switches span the frequency range of 20MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost effective narrowband to high performance broadband. Each switch incorporates a TTL-compatible driver with discrete logic inputs for convenient system integration and operates from +5V and - 5 to -18 DC power supplies. Standard screened devices incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.

Applications:

- EW Systems
- Communications Systems
- Antenna Selectors
- Test Equipment
- Electronic Simulators
- Filter Selectors



Ordering Information:

- Delivery: Stock to eight weeks
- Additional options: Switches can be modified for custom applications. Contact the factory to discuss specific requirements.

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Non-Reflective Switches							
Part Number	Frequency Range	Insertion Loss(dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK8-A24-111	0.02 GHz – 0.5 GHz	1.9	1.5	80	100	1.0	W802
CMIK8-B24-111	0.5 GHz - 1 GHz	2.0	1.5	80	100	1.0	W802
CMIK8-C24-111	1 GHz - 2GHz	1.7	1.5	80	50	1.0	W802
CMIK8-D24-111	2 GHz - 4GHz	2.0	1.5	80	50	1.0	W802
CMIK8-E23-111	4 GHz - 8GHz	2.5	1.8	60	50	1.0	W802
CMIK8-123-111	0.02 GHz - 3GHz	3.2	2.0	60	200	1.0	W802

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Reflective Switches							
Part Number	Frequency Range	Insertion Loss (dB max)	VSWR (max)	Isolation (dB min)	SWSP (nsec) (max)	RF Power (WCW) (max)	Package
CMIK8-A14-111	0.02 GHz – 0.5 GHz	1.7	1.5	80	100	1.0	W802
CMIK8-B14-111	0.5 GHz - 1 GHz	1.8	1.5	80	100	1.0	W802
CMIK8-C14-111	1 GHz - 2GHz	1.4	1.5	80	50	1.0	W802
CMIK8-D14-111	2 GHz - 4GHz	1.7	1.5	80	50	1.0	W802
CMIK8-E14-111	4 GHz - 8GHz	2.2	1.6	60	50	1.0	W802
CMIK8-113-111	0.02 GHz - 3GHz	3.0	2.0	60	200	1.0	W802
CMIK8-213-111	2 GHz - 18GHz	3.5	2.2	60	50	1.0	W802
CMIK8-214-111	2 GHz - 18GHz	3.7	2.2	80	50	1.0	W802

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ELECTRICAL NOTES	MECHANICAL SPECIFICATIONS
DC Bias: +5.0 +/- 0.5V @ 200mA max. -5.0 +/- .5V @ 50mA max.	Case Style: Outline W802
Control: TTL Logic 0: Low Loss TTL Logic 1: Isolation C1 Controls J1 – J0 C2 Controls J2 – J0 C3 Controls J3 – J0 C4 Controls J4 – J0 C5 Controls J5 – J0 C6 Controls J6 – J0 C7 Controls J7 – J0 C8 Controls J8 – J0	Finish: gold plating for brass material *
Power Handling: 1 Watt	Connectors: SMA female per MIL-C-39012
	Bias and Control 0.020" dia x 0.15" long solder pins
	Weight:
	Mounting: (4) 2.2 mm dia through holes

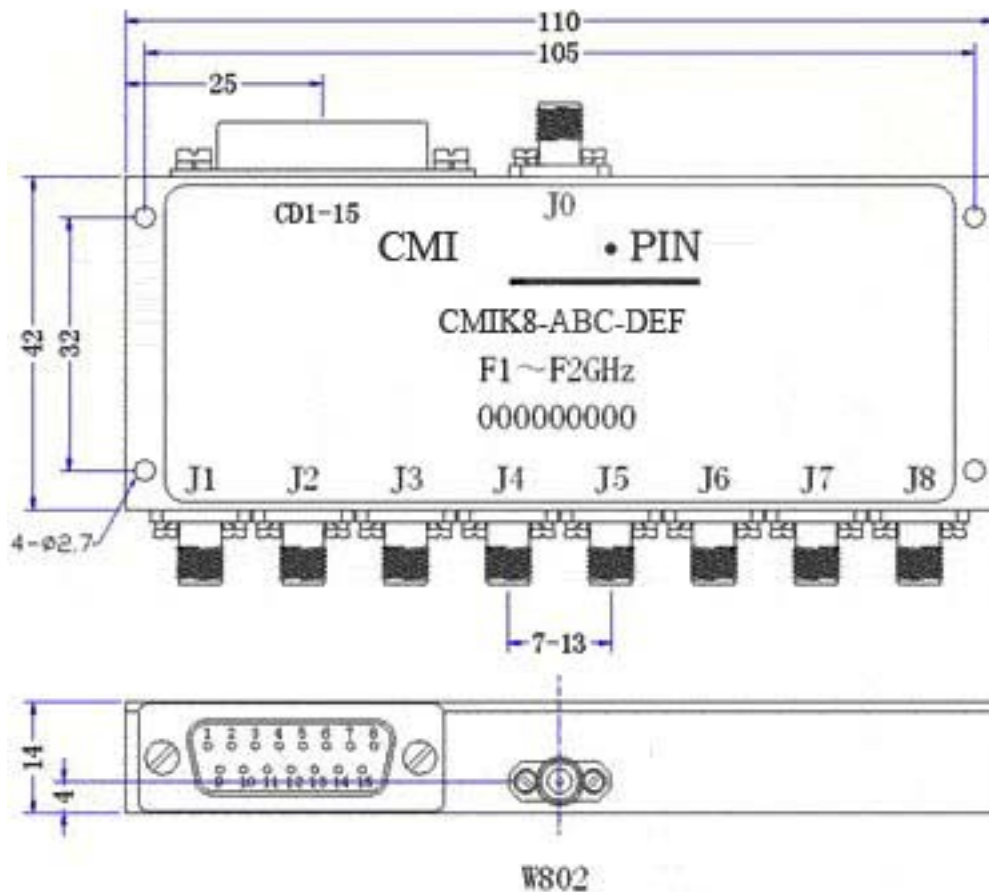
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Switch Filter Bank

Many applications require frequency pre-selection at the front end of the communication or test and measurement system. CMI offers a variety of Multi-Function Assembled products to satisfy a broad range of filtering applications. For many customer specific applications, CMI offers switch filter banks ranging from 2 to 8 channels. Many integrated switch filter bank products are engineered to order; please find below a customized 8 channel switch filter bank. This product allows flexibility to offer a turnkey solution to customers' more complex filtering requirements.

8 Channel Switch Filter Bank

CMISF-81-111-01 is an eight channel filter bank. It features 8 selectable channels with bandwidth 80 MHz. The unit was designed for military applications. (Package size is 4.1" L x 4.1" W x .6" H.) Insertion loss is 8.5 dB (max per channel); switching speed is 200 nS max, driven by the delay in the narrowband channel; VSWR is 1.5:1 max. Switches operate on a ± 5 V@500mA power supply; control logic is 4 bits TTL. The unit was designed to meet MIL-STD 202 environmental requirements. This unit utilized a low ripple Chebyshev design, however others such as Gaussian, Bessel, Butterworth, linear phase and elliptical are available.

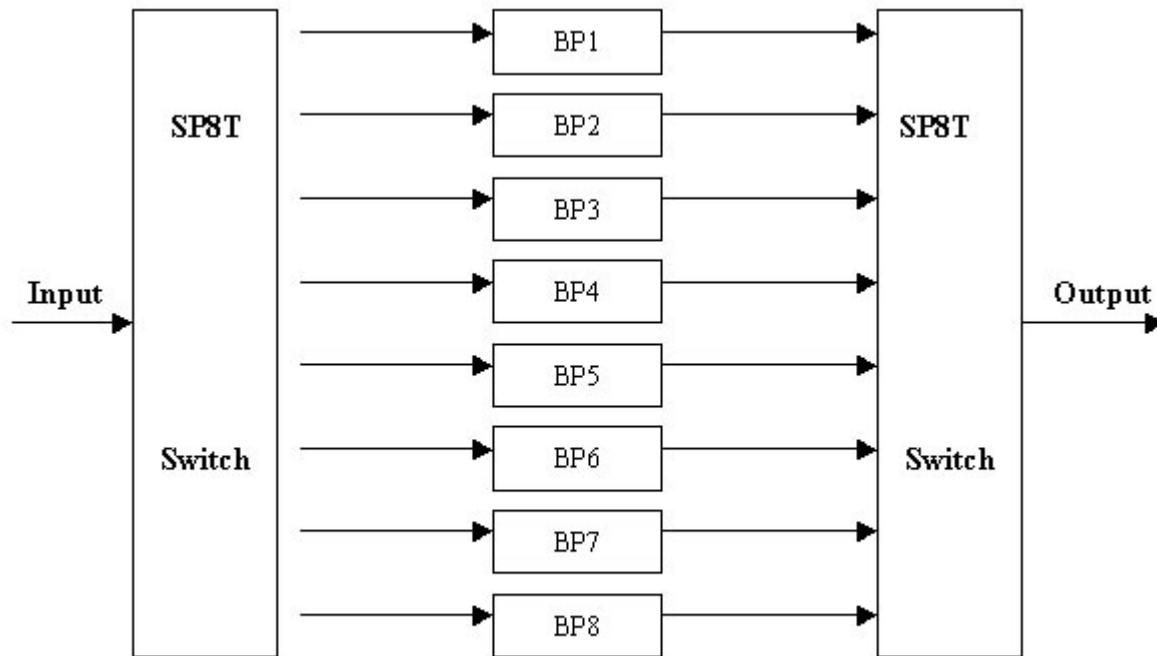


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General Description on SP8T Switch filter Bank



Block Diagram

Specifications :

- 1 Insertion Loss: <8.5dB
- 2 Ripple: ± 1 dB (All Channels)
- 3 Switch Speed: <50ns
- 4 Isolation: ≥ 75 dB
- 5 Power Supply: + 5V/500mA - 5V/500mA
- 6 Control: 4bits TTL
- 7 Input/Output Connector: SMA (F)
- 8 Input/Output VSWR<1.5
- 9 Operating Temperature: - 55 °C ~ + 85 °C
- 10 Package size: 105X104X15 (mm3)
- 11 Specification for Filters

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Control Truth Table:

C4 C3 C2 C1	Status
0 0 0 0	BP1:Insertion Loss
0 0 0 1	BP2:Insertion Loss
0 0 1 0	BP3:Insertion Loss
0 0 1 1	BP4:Insertion Loss
0 1 0 0	BP5:Insertion Loss
0 1 0 1	BP6:Insertion Loss
0 1 1 0	BP7:Insertion Loss
0 1 1 1	BP8:Insertion Loss
Others	Isolation for all channels

1 Centre Frequency : f0=1555MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

2 Centre Frequency : f0=1635MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

3 Centre Frequency : f0=1715MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

4 Centre Frequency : f0=1785MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

5 Centre Frequency : f0=1865MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

6 Centre Frequency : f0=1945MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

7 Centre Frequency : f0=2025MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

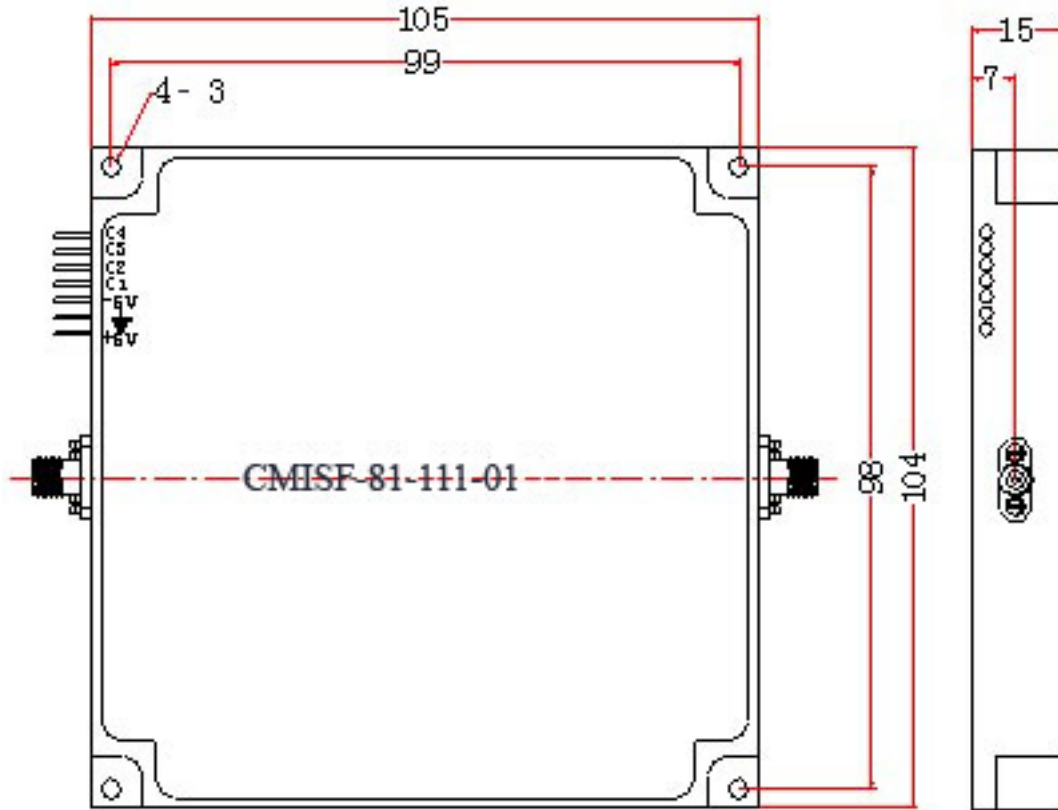
8 Centre Frequency : f0=1395MHz , Bandwidth : BW1dB=80MHz Rejection : f0±125MHz ≥65dB

**Above eight filters must have a good match in the delay time

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When specializing a switch filter bank, please take the following into consideration:

ELECTRICAL SPECIFICATIONS	ENVIRONMENTAL SPECIFICATIONS
Frequency Range	Operating Temperature
Insertion Loss	Hermeticity
Pass Band Characteristics	Gross Leak 10-5
VSWR	Fine Leak 10-8
Time Delay	Moisture Resistance
Phase/Amplitude	(Humidity)
F Input Power	Thermal Shock
Control Logic	Mechanical Shock
Switching Speed	Random Vibration
	Altitude/Salt
	Spray
	Mechanical:
	Material
	Finish
	Dimensions

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