

### **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](http://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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<b>ELECTRICAL NOTES</b>	<b>MECHANICAL SPECIFICATIONS</b>
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.

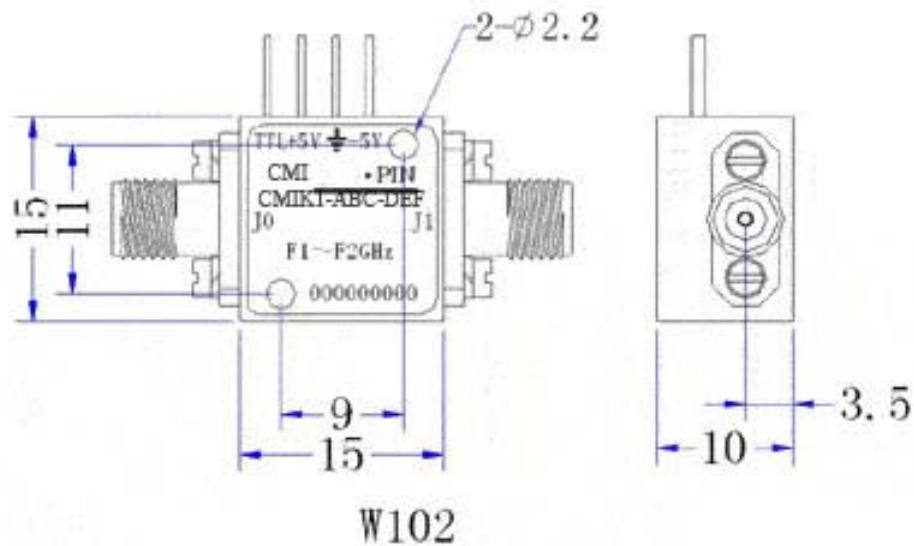
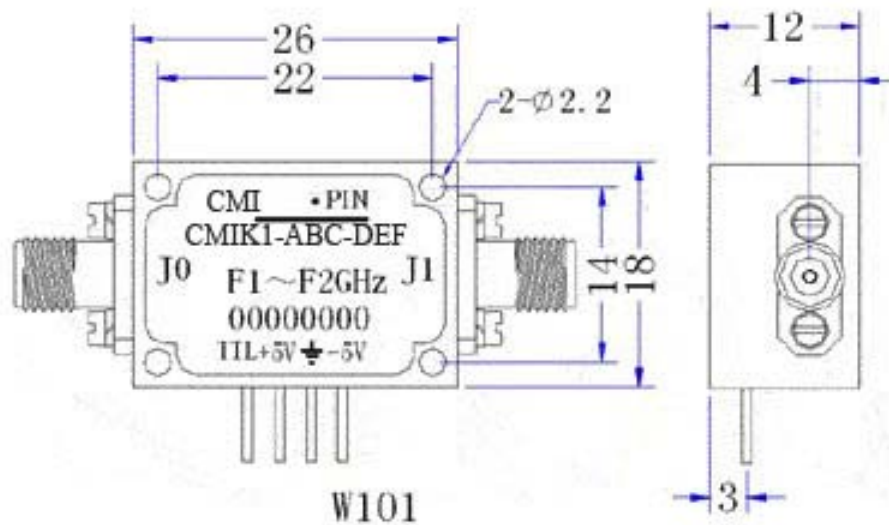
**Note:**

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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