

### **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.**

**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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# PRODUCT SPECIFICATION

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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<b>Reflective Switches</b>							
<b>Part Number</b>	<b>Frequency Range</b>	<b>Insertion Loss(dB max)</b>	<b>VSWR (max)</b>	<b>Isolation (dB min)</b>	<b>SWSP (nsec) (max)</b>	<b>RF Power (WCW) (max)</b>	<b>Package</b>
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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<b>ELECTRICAL NOTES</b>	<b>MECHANICAL SPECIFICATIONS</b>
<b>DC Bias:</b> +5.0 +/- 0.5V @ 200mA max. -5.0 +/- .5V @ 50mA max.	<b>CaseStyle:</b> outlineW702.W703(Standard)
<b>Control:</b> 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	<b>Finish:</b> gold plating for brass material*
<b>Power Handling:</b> 1 watt	<b>Bias and Control:</b> 0.020" dia x 0.15" long solder pins
	<b>Weight:</b> grams max. <b>Mounting:</b> (4) 2.2 mm dia through holes

\*Passivation for aluminum material.

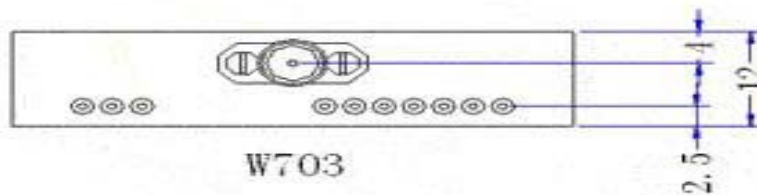
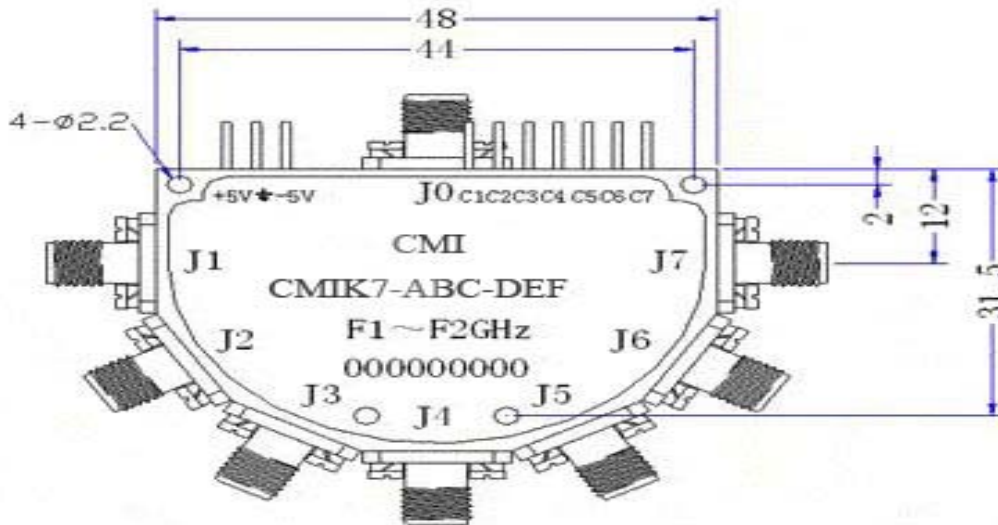
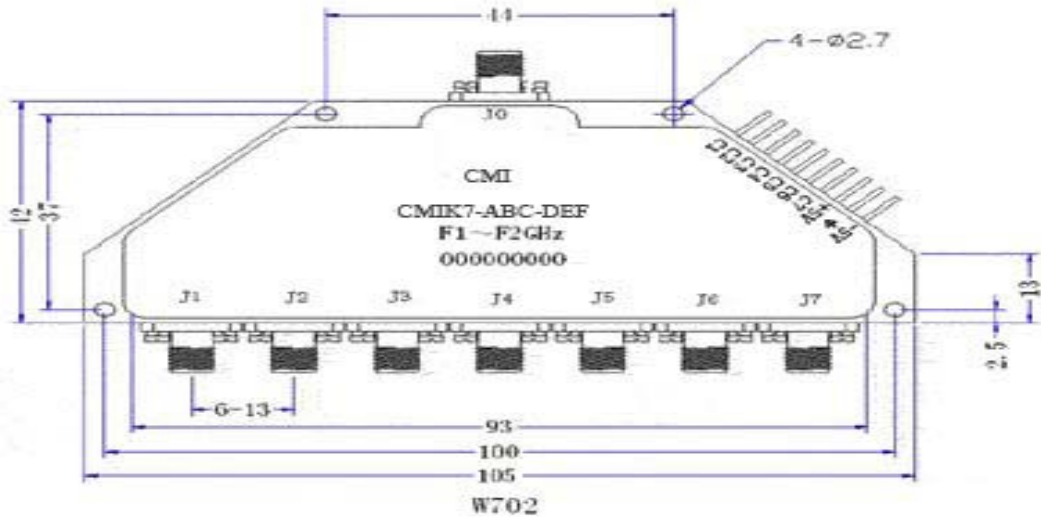
Other finish is available according to the customer's requirements.

**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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