

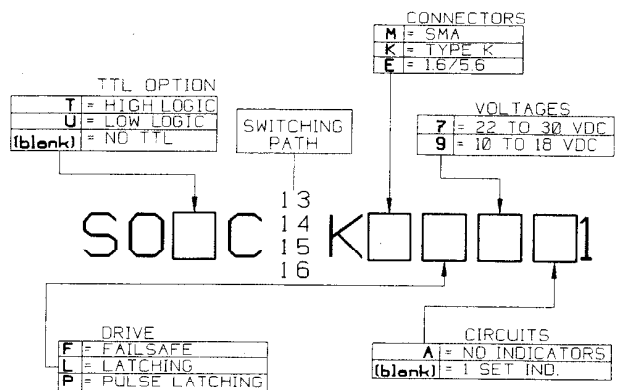
# C<sup>13</sup> K<sup>14</sup> SERIES

16 SP3T thru SP6T relay style DC to 40 GHz family.

The C13Z thru C16Z series offers reliability and performance in SP3T, SP4T, SP5T, and SP6T switching utilizing SMA, K, and 1.5/5.6 connectors.

This DC to 40 GHz series is typically used in mobile radio, cellular telecommunications and ATE applications.

The following pages comprise a variety of sample models commonly used.



REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

**CONNECTOR**  
TYPE "SMA" FEMALE  
4 PLACES  
3 CONNECTORS SPACED AS SHOWN ON 1.66 DIA B.C.

3 MTG HOLES  
8-32 UNC-2B X .22 DP  
EQUALLY SPACED  
ON 1.50 B.C.

**SPECIFICATIONS:**

FREQUENCY RANGE GHz	DC TO 3	3 TO 8	8 TO 12.4	12.4 TO 18
V S W R MAX	1.2:1	1.3:1	1.4:1	1.5:1
INSERTION LOSS MAX	0.2 dB	0.3 dB	0.4 dB	0.5 dB
ISOLATION MIN	60 dB	70 dB	60 dB	60 dB

POWER MAX. 50 CW  
RF IMPEDANCE 50 OHMS

**ELECTRICAL:**  
 VOLTAGE 22 TO 30 VDC  
 CURRENT 300 mA MAX @ 28 VDC @ 20°C  
 TTL LOGIC VOLTAGE LOW: 0 TO 0.8 VDC  
 VOLTAGE HIGH: 2.4 TO 5.5 VDC  
 CURRENT LOW: 0 mA  
 CURRENT HIGH: 1.75 mA MAX @ 5 V

**SWITCHING TIME** 20 MILLISECONDS MAX.

**MECHANICAL:**  
 MATERIAL ALUMINUM (RF ASSY)  
 RF CONTACTS BREAK-BEFORE MAKE  
 FINISH IRIDIUM PER MIL-C-5541  
 PAINT DULL BLACK ENAMEL  
 LIFE 1,000,000 CYCLES MIN.

**ENVIRONMENTAL:**  
 TEMP. OPERATING 0°C TO +70°C  
 NON-OPERATING -40°C TO +100°C  
 HUMIDITY 0 TO 95% ND CONDENSATION

POS  
+VDC @ 10  
@ 20 C  
@ 30 IND  
RTN

NON VOLT TTL CONTROL  
+VDC -RET 1 2 3  
IND COM TTL DRIVER  
SCHEMATIC SHOWN IN POSITION 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MODEL # SOTC13KML71	
TOLERANCES		DRWN	7/20/95 Lit
DECIMAL	FRACTIONS	CHECKED	8/16/95 M.B.
PLACE .010	1/64	APPROVED	
PLACE .005	1/84	APPROVED	
PLACE .002		APPROVED	
ANGLES 1/2 DEG.			
MATERIAL			
NEXT ASSY	USED ON		
APPLICATION			

COAXIAL SWITCH, SP3T, TYPE "SMA", TTL, LATCHING, w/INDICATORS

**B** 09080 **B** 9604-6

SCALE UNIT WT SHEET 1 OF 1

SOTC13KML71