

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

SCHEMATIC DIAGRAM-LATCHING SHOWN IN POSITION 1

FOR ACCESS TO KNOB REMOVE 2 CAPTIVE SCREENS

RECEPTACLE PT97A-10-6P

#6-32 UNC-2B X .19 DP NEAR SIDE & FAR SIDE 4 MOUNTING HOLES

R.F. CONNECTOR TYPE "N" FEMALE 4 PLACES

SPECIFICATIONS:

MICROWAVE:

FREQ RANGE	DC TO 1 GHz	1 TO 2	2 TO 6.5	6.5 TO 6.4
V.S.W.R. MAX	1:10:1	1:15:1	1:25:1	1:30:1
INSERTION LOSS MAX	0.5 dB	1.0 dB	2.5 dB	3.0 dB
ISOLATION MIN	80 dB	70 dB	60 dB	60 dB

RF POWER 50 WATTS CW
 IMPEDANCE 50 OHMS

ELECTRICAL:

SWITCHING TIME 60 MILLISECONDS
 CONTACTS BREAK BEFORE MAKE
 VOLTAGE 28 VDC + OR - 10%
 CURRENT 1.5 AMP MAX. @ 20°C
 DRIVE LATCHING MOTOR. LOGUS 1
 LIFE 1,000,000 CYCLES MIN

MECHANICAL:

MATERIAL RF CONN: STAINLESS STEEL
 GOLD PLATED BERYLLIUM
 COPPER CENTER CONDUCTOR
 TEFLON INSULATION
 FINISH MARKING DULL BLACK ENAMEL
 1/8 HIGH WHITE

ENVIRONMENTAL:

TEMPERATURE OPERATIVE -40°C TO +80°C
 NON-OPER. -55°C TO +100°C
 HUMIDITY 0-100% CONDENSATION

COAXIAL SWITCH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES		MODEL #	LOGUS MICROWAVE
DECIMAL	FRACTIONS	DRWN	9/9/95	LJS	
PLACE: .010	: 1/64	CHECKED	9/12/95	M.R.	
PLAC: .005	: 1/32	APPROVED			
ANGLES: V2 DEG		APPROVED			
MATERIAL:					

NEXT ASSY	USED ON	FINISH	SCALE	UNIT WT	SHEET 1 OF 1
			B 09080	B 9839-1	REV.

LWC224ANL23

REVISIONS				
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1.60
.82 TYP
.72
.144
.206

MOUNTING HOLES #6-32 UNC-2B X .18 DP 2 NEAR SIDE 2 FAR SIDE

TYPE "BNC" CONN. FEMALE

6 PIN HEADER

COAXIAL SWITCH

SPECIFICATIONS:

MICROWAVE:

FREQ. RANGE 0 TO 1 GHz
 V.S.W.R. 1:10:1 MAX
 INSERTION LOSS 0.05 dB MAX
 ISOLATION 80 dB MIN

ELECTRICAL:

RF POWER 100 WATTS MAX
 RF IMPEDANCE 50 OHMS
 SWITCHING TIME MAX. 60 MS
 CONTACTS BREAK BEFORE MAKE
 VOLTAGE 28 VDC
 CURRENT 1.0 AMPS @ 28 VDC @ 20°C

MECHANICAL:

FINISH IRIDITE PER MIL-C-5541
 PAINT DULL BLACK ENAMEL
 LIFE 1,000,000 CYCLES
 DRIVE LOGUS 1 LATCHING MOTOR

ENVIRONMENTAL:

TEMPERATURE OPERATIVE -10°C TO +7°C
 NON-OPERATIVE -55°C TO +100°C
 HUMIDITY 0-95% NO CONDENSATION

SCHEMATIC DIAGRAM-LATCHING SHOWN IN POSITION 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES		MODEL #	LOGUS MICROWAVE
DECIMAL	FRACTIONS	DRWN	9/8/95	LJS	
PLACE: .010	: 1/64	CHECKED			
PLAC: .005	: 1/32	APPROVED			
ANGLES: V2 DEG		APPROVED			
MATERIAL:					

NEXT ASSY	USED ON	FINISH	SCALE	UNIT WT	SHEET 1 OF 1
			B 09080	B 9841-1	REV.

MMC224FBL24



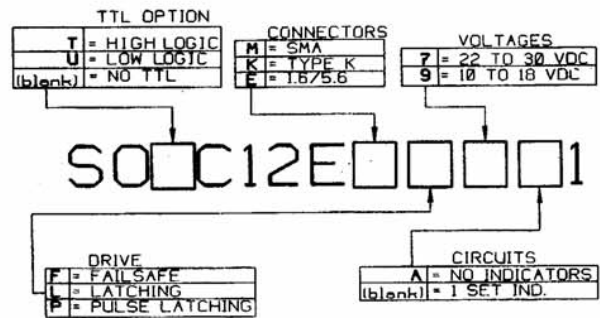
C12E SERIES

SPDT Relay style DC to 40 GHz family.

The C12E series offers reliability and performance in SPDT switching utilizing SMA, K, and 1.6/5.6 connector styles.

The small package size and fast switching are ideal for numerous RF applications covering DC to 40 GHz.

The following pages comprise a variety of sample models commonly used in EW, Radar, and Satcom applications.



SCHMATIC DIAGRAM SHOWN IN POSITION 1

INDICATOR CIRCUITRY: 4 POS 1, 5 IND COM, 6 POS 2

NOMINAL VOLTAGE: + VDC, 3 -RETURN

TTL CONTROL: 2 POS 2, 1 POS 1

REVISIONS				
EDN	L/R	DESCRIPTION	DATE	APPROVED

2.00 MAX, .170, .090, .440, .800, 1.190, 1.34

MTG. HOLE .128 DIA 2 PLACES

MTG HOLE .093 DIA THRU 2 PLACES

SMA TYPE CONN FEMALE 3 PLACES

SPECIFICATIONS:

FREQUENCY RANGE GHz	DC TO 3	3 TO 6	6 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	0.5 dB	0.3 dB	0.4 dB	0.5 dB
ISOLATION MIN	60 dB	70 dB	60 dB	60 dB

POWER MAX. 100 CW
RF IMPEDANCE 50 OHMS

ELECTRICAL:
VOLTAGE 22 TO 30 VDC
CURRENT 150 mA MAX @ 28 VDC @ 20°C
TTL LOGIC VOLTAGE LOW: 0 TO 0.8 VDC
CURRENT LOW: 8 mA
CURRENT HIGH: 1.75 mA MAX @ 5 V

SWITCHING TIME 20 MILLISECONDS MAX.

MECHANICAL:
MATERIAL ALUMINUM (RF ASSY)
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% NO CONDENSATION

DESIGNER	FUNCTIONS	DATE	REV
		7/18/95	24*

MODEL # SOTC12EML71

COAXIAL SWITCH, TTL, SPDT, TYPE "SMA", LATCHING, 1 SET INDICATORS

LOGUS BY 090845

SCALE UNIT REV SHEET 1 OF 1

SOTC12EML71