

SHOWN IN POSITION 1

REVISIONS

EDN	LTR	DESCRIPTION	DATE	APPROVED

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	80 dB	70 dB	60 dB	60 dB

POWER MAX. 100 CW
RF IMPEDANCE 50 OHMS

ELECTRICAL:
VOLTAGE 22 TO 30 VDC
CURRENT 140 mA MAX @ 28 VDC @ 20°C
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% NO CONDENSATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES		MODEL #
DECIMAL	FRACTIONS	DRN	5/25/95	SOC12EMF7A1
PLCS ±.010	±.004	CHEK	5/25/95	
PLCS ±.005	±.004	APPR		
ANGLS 1/2 DEG.		APPR		
MATERIAL:				
NEXT ASSY	USED ON	FINISH		
APPLICATION				

LOGIS MICROWAYS	
COAXIAL SWITCH, SMA, SPDT, NO INDICATORS, FAILSAFE	
B 09080	B 9598-2
SCALE	UNIT WT SHEET 1 OF

SCHEMATIC DIAGRAM SHOWN IN POSITION 1

REVISIONS

EDN	LTR	DESCRIPTION	DATE	APPROVED

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	80 dB	70 dB	60 dB	60 dB

POWER MAX. 100 CW
RF IMPEDANCE 50 OHMS

ELECTRICAL:
VOLTAGE 22 TO 30 VDC
PULSE WIDTH 30 nS MIN; 50 nS MAX
CURRENT 100 mA MAX @ 28 VDC @ 20°C
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% NO CONDENSATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES		MODEL #
DECIMAL	FRACTIONS	DRN	7/18/95	SOC12EMP7A1
PLCS ±.010	±.004	CHEK	7/18/95	
PLCS ±.005	±.004	APPR		
ANGLS 1/2 DEG.		APPR		
MATERIAL:				
NEXT ASSY	USED ON	FINISH		
APPLICATION				

LOGIS MICROWAYS	
COAXIAL SWITCH, SPDT, TYPE 'SMA' PULSE LATCHING, NO INDICATORS	
B 09080	B 9598-19
SCALE	UNIT WT SHEET 1 OF



MICROWAVE

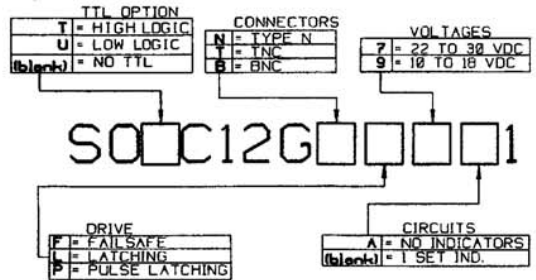
C12G SERIES

SPDT Relay style DC to 12.4 GHz family.

The C12G series offers reliability and performance in SPDT switching utilizing BNC, N, and TNC connector styles.

This DC to 12.4 GHz series covers typical applications in telecommunications, cellular, mobile radio and ATE.

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



SCHMATIC DIAGRAM SHOWN IN POSITION 1

4 POS 1
5 IND COM
6 POS 2

INDICATOR CIRCUITRY

1 VDC
3 RETURN
2 POS 2
1 POS 1

NOMINAL VOLTAGE

TTL CONTROL

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

1 2 3
VDC IND
4 5 6

CONNECTOR TYPE "N" (FEMALE) 3 PLACES

2.44
2.40
.148 DIA THRU 4 HOLES
.288
.388
.63 MAX
.888
2.500
2.75

SPECIFICATIONS:
MICROWAVE

FREQUENCY RANGE GHz	DC TO 3	3 TO 8	8 TO 12.4
V. S. W. R. MAX	1.2:1	1.35:1	1.5:1
INSERTION LOSS MAX	0.2 dB	0.35 dB	0.5 dB
ISOLATION MIN	80 dB	70 dB	60 dB

POWER MAX. 100 MW
 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
 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% NO CONDENSATION

UNLESS OTHERWISE SPECIFIED	MODEL #	LOGUS MICROWAVE
CONFORMING TO MIL-STD-883C	SOTC12GNL71	
DECIMAL FRACTIONS	DRAWN 7/14/95	
PLACES: Holes: 1/64	CHECKED 7/18/95	
PLACES: Holes: 1/64	APPROVED	
ANGLES: 1/2 DEG	APPROVED	
MATERIAL:		
NEXT ASSY	USED ON	
APPLICATION	FINISH	

COAXIAL SWITCH, SPOT, TYPE "N" LATCHING, TTL, W/INDICATORS

B 09080 B 9600-10

SCALE UNIT WT. SHEET 1 OF 1

SOTC12GNL71

