

SOC22FML7A1

SOC22FMP7A1

MOUNTING HOLES
#6-32 UNC-2B
X.25 DEEP

REVISION

EDR	LTR	DESCRIPTION	DATE	APPROVED

POWER INPUT

3 +POS 2
2 -RETURN
1 +POS 1

1.900 TYP

0.820 TYP

1.688 TYP

1 2
3 4

0.31

1.312

0.200

2.88 MAX

#6-32 UNC-2B TAP
X.25 DEEP
2 N.S. 2 F.S.

TYPE "SMA" CONNECTORS
FEMALE

1 2
3

SCHEMATIC DIAGRAM SHOWN
IN POSITION 1

SPECIFICATIONS
MICROWAVE

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

IMPEDANCE 50 OHM
R.F. POWER 100 WCH

ELECTRICAL:
VOLTAGE 22 TO 30 VDC
CURRENT 250 mA MAX @28 VDC @ 20°C
SWITCHING TIME 15 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

DATE DESIGNED / CHECKED / APPROVED	DESIGNER / CHECKER / APPROVER	FUNCTIONS	SCALE	UNIT WT	SHEET 1 OF 1
7/13/95 / 7/19/95 / 7/19/95					

MODEL # SOC22FML7A1

LOGIS MICROGRAYS

COAXIAL SWITCH, DPDT, TYPE "SMA"
LATCHING, NO INDICATORS

B 09080 B 9597-9

SCALE UNIT WT SHEET 1 OF 1

MOUNTING HOLES
#6-32 UNC-2B
X.25 DEEP

REVISION

EDR	LTR	DESCRIPTION	DATE	APPROVED

POWER INPUT

3 +POS 2
2 -RETURN
1 +POS 1

1.900 TYP

0.699 TYP

1.688 TYP

1 2
3 4

0.31

1.312

0.200

2.88 MAX

#6-32 UNC-2B TAP
X.25 DEEP
2 N.S. 2 F.S.

TYPE "SMA" CONNECTORS
FEMALE

1 2
3

SCHEMATIC DIAGRAM SHOWN
IN POSITION 1

SPECIFICATIONS
MICROWAVE

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

IMPEDANCE 50 OHM
R.F. POWER 100 WCH

ELECTRICAL:
VOLTAGE 22 TO 30 VDC
PULSE WIDTH 30 μS MIN; 50 μS MAX
CURRENT 200 mA MAX @28 VDC @ 20°C
SWITCHING TIME 15 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

DATE DESIGNED / CHECKED / APPROVED	DESIGNER / CHECKER / APPROVER	FUNCTIONS	SCALE	UNIT WT	SHEET 1 OF 1
7/13/95 / 7/19/95 / 7/19/95					

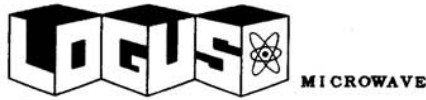
MODEL # SOC22FMP7A1

LOGIS MICROGRAYS

COAXIAL SWITCH, DPDT, TYPE "SMA"
PULSE LATCHING, NO INDICATORS

B 09080 B 9597-12

SCALE UNIT WT SHEET 1 OF 1



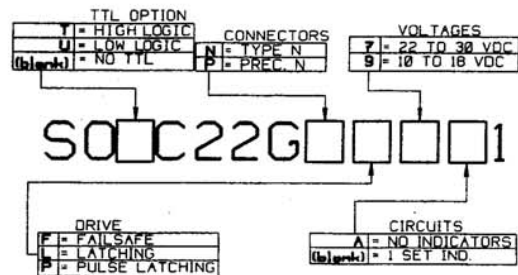
C22G SERIES

DPDT Relay style DC to 15 GHz family.

The C22G series offers performance and value in DPDT transfer RF switching in N and precision N connector styles.

Covering DC to 15 GHz, this series is a real workhorse in numerous applications including telecommunications and cellular.

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



4 POS 1
5 IND COM
6 POS 2
INDICATOR CIRCUITRY

1 VDC
3 RETURN
2 POS 2
1 POS 1
TTL CONTROL

SCHEMATIC DIAGRAM SHOWN IN POSITION 1

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

1.900 TYP
1.688 TYP
1.312
0.625
2.88 MAX
0.200
0.800 TYP

MOUNTING HOLES #6-32 UNC-2B X.25 DEEP

#6-32 UNC-2B TAP X.25 DEEP 2 N.S. 2 F.S.

TYPE "N" CONNECTORS FEMALE

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

IMPEDANCE 50 OHM
 POWER MAX. 100 WATTS
 ELECTRICAL: VOLTAGE 22 TO 30 VDC
 PULSE WIDTH 50 ns MIN
 100 ns MAX
 CURRENT 200 mA MAX @ 28 VDC @ 20°C
 VOLTAGE LOW: 0 TO 0.9 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)
 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 8 TO 95% NO CONDENSATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	MODEL #
DECIMAL TOLERANCES	SOTC22GNL71
DRYING	7/14/95 JJE
PLATE	CHECKED 7/19/95 M.E.
PLATE	APPROVED
ANGLES 1/2 DEG	APPROVED
MATERIAL	

LOGUS MICROWAVE	COAXIAL SWITCH, DPDT, TYPE "N", LATCHING, TTL, W/INDICATORS
B 09080	B 9599-9
SCALE	UNIT MM
SHEET 1 OF 1	

SOTC22GNL71