



MICROWAVE

HIGH POWER COAXIAL SWITCHES, TYPE "N"

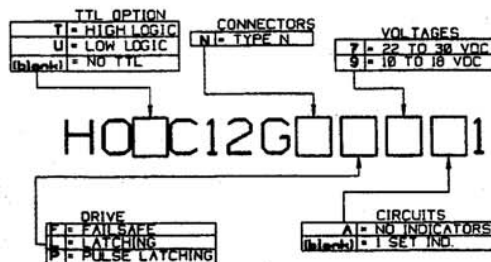
HOC12G SERIES

SPDT Relay style DC to 4 GHz family.

The HC12G series offers reliability and performance in SPDT switching utilizing High Power "N" connector styles.

This DC to 4 GHz series covers typical applications in telecommunications, cellular, mobile radio and ATE.

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



4 POS 1 } INDICATOR CIRCUITRY
 5 INO COH }
 6 POS 2 }
 + VDC NONLATCHING VOLTAGE
 3 -RETURN }
 2 POS 2 } TTL CONTROL
 1 POS 1 }
 IN 2
 SCHEMATIC DIAGRAM SHOWN IN POSITION 1

REVISIONS				
REV	LR	DESCRIPTION	DATE	APPROVED

CONNECTOR TYPE "N" (FEMALE) 3 PLACES
 .148 DIA THRU 4 HOLES
 .200
 .388
 .53 MAX
 2.44
 2.48
 .888
 .888
 2.50
 2.75

SPECIFICATIONS
MICROWAVE

FREQUENCY RANGE GHz	DC TO 0.5	0.5 TO 1	1 TO 2	2 TO 3	3 TO 4
V.S.W.R. MAX	1.18:1	1.16:1	1.2:1	1.3:1	1.4:1
INSERTION LOSS MAX	0.2 dB	0.2 dB	0.2 dB	0.3 dB	0.4 dB
ISOLATION MIN	20 dB	20 dB	20 dB	20 dB	20 dB
POWER MAX CW	1200	800	600	500	400

IMPEDANCE: 50 OHM

ELECTRICAL:
 VOLTAGE: 22 TO 30 VDC
 CURRENT: 150 mA MAX @ 28 VDC @ 28°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)
 BREAK-BEFORE MAKE
 FINISH: IRIDIUM PER MIL-C-5541
 PAINT DULL BLACK ENAMEL

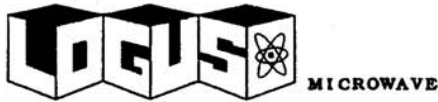
LIFE: 1,000,000 CYCLES MIN.

ENVIRONMENTAL:
 TEMP. OPERATING 0°C TO +70°C
 NON-OPERATING -40°C TO +100°C
 HUMIDITY 8 TO 95%, NO CONDENSATION

DATE OF ORDER	REV. 1
QUANTITY	124
ORDER NO.	
QUANTITY OF DEL.	
SPECIAL	
APPROVAL	
DATE	
BY	
FROM	
APPLICATION	

MODEL #	HOC12GNL71
DATE	8/12/98
DESIGNED BY	8/28/98 B.G.
APPROVED	
DATE	
BY	
FROM	
SCALE	B 09080
UNIT	B 10131-4
SHEET	1 OF 1

HOC12GNL71



HIGH POWER COAXIAL SWITCHES, TYPE "N"

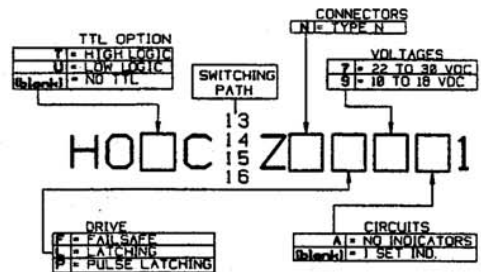
13 HOC 14 Z 15 SERIES 16

SP3T thru SP6T relay style DC to 4 GHz family.

The HC13Z thru HC16Z series offers reliability and performance in SP3T, SP4T, SP5T, and SP6T switching utilizing High Power N connectors.

This DC to 4 GHz series covers typical applications in Telecommunications, Cellular and ATE.

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



SCHMATIC SHOWN IN POSITION 1

2.58 DIA.
 .05
 2.450
 3 HOUSING HOLES EQUALLY SPACED ON A 2.125 DIA B.C.
 R.F. CONNECTOR TYPE "N" FEMALE PER MIL-C-35812. 4 PLACES. 3 CONNECTORS SPACED AS SHOWN ON 1.750 DIA. B.C.

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS
MICROWAVE

FREQUENCY RANGE GHz	DC TO 0.5	0.5 TO 1	1 TO 2	2 TO 3	3 TO 4
V.S.W.R. MAX	1.18	1.15	1.21	1.31	1.41
INSERTION LOSS MAX	1.2 dB	0.2 dB	0.3 dB	0.4 dB	0.4 dB
ISOLATION MIN	70 dB	80 dB	85 dB	70 dB	60 dB
POWER DDM	1200 W	800 W	500 W	500 W	400 W

IMPEDANCE: 50 OHM

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: IRIDITE 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

MILS DIMENSION SPECIFIED UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES		TOLERANCES	
SECTION	FUNCTIONS	DATE	BY	CHKD	APP'D
PLATE	1	8/2/86	LSL		
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HOTC13ZNL71