



HIGH POWER COAXIAL SWITCHES, TYPE "N"

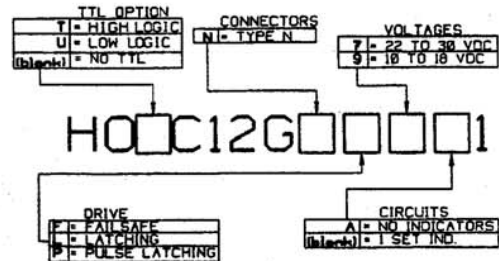
HOC12G SERIES

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.



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	120W	120W	120W	75W	75W

ELECTRICAL:
 IMPEDANCE: 50 OHM
 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
 IRIDIUM PER MIL-C-5541
 FINISH: 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

REV	LN	DESCRIPTION	DATE	APPROVED

CONNECTOR TYPE "N" (FEMALE) 3 PLACES

REVISIONS

INDICATOR CIRCUIRY
 4 POS 1
 5 INO COM
 6 POS 2

NONLINAL VOLTAGE
 + VDC
 -RETURN

TTL CONTROL
 2 POS 2
 1 POS 1

DRIVE
 F = FAIL SAFE
 L = LATCHING
 P = PULSE LATCHING

CIRCUITS
 A = NO INDICATORS
 (black) = 1 SET IND.

MODEL: HOC12GNL71

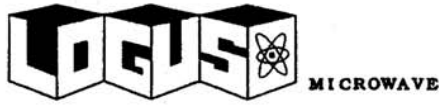
DATE: 8/12/98

CHECKED: 8/28/98

APPROVED: [Signature]

SCALE: UNIT: SHEET 1 OF 1

HOC12GNL71



HIGH POWER COAXIAL SWITCHES, TYPE "N"

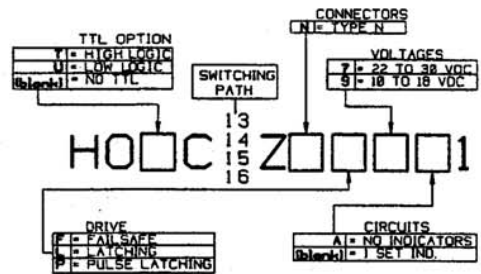
13 HOC 14 Z SERIES

15
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
 3.450
 R.F. CONNECTOR TYPE "N" FEMALE PER MIL-C-35812. 4 PLACES. 3 CONNECTORS SPACED AS SHOWN ON 1.768 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	1.2	1.3	1.4
INSERTION LOSS MAX	1.4 dB	0.2 dB	1.2 dB	0.3 dB	0.4 dB
ISOLATION MIN	70 dB	80 dB	85 dB	70 dB	60 dB
POWER DBM	200 W	200 W	200 W	200 W	200 W

IMPEDANCE: 50 OHM
 ELECTRICAL: 22 TO 30 VDC
 VOLTAGE: 300 mA MAX @ 28 VDC @ 20°C
 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: ALUMINUM (RF ASSY)
 MATERIAL: BREAK-BEFORE MAKE
 RF CONTACTS: IRIDIUM PER MIL-C-5541
 FINISH: PAINT DULL BLACK ENAMEL
 LIFE: 1,000,000 CYCLES MIN.

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

DESIGNER SPECIFIED DIMENSIONS ARE IN INCHES	MODEL #	
SECTION	HOTC13ZNL71	
DATE	8/2/95	HIGH POWER COAXIAL SWITCH, SP3T, TYPE "N", LATCHING, W/INDICATORS
CHECKED		
APPROVED		B 09080 - B 10540-1
APPROVED		
MATERIAL		SCALE
NEXT ASSY	USED ON	UNIT WT
APPLICATION	FINISH	SHEET 1 OF 1

HOTC13ZNL71