

# HIGH POWER COAXIAL SWITCHES, TYPE "N"

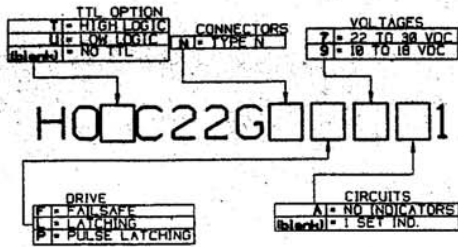
## HOC22G SERIES

DPDT Relay style DC to 4 GHz family.

The HC22G series offers performance and value in DPDT transfer RF switching in High Power N connector styles.

Covering DC to 4 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 } INDICATOR CIRCUITRY  
 5 IND COM }  
 6 POS 2 }

• VDC NOMINAL VOLTAGE  
 3 -RETURN  
 2 POS 2 } TTL CONTROL  
 1 POS 1 }

1) <math>K</math>2  
 3) <math>K</math>4

SCHEMATIC DIAGRAM SHOWN IN POSITION 1

1.900 TYP  
 .680 TYP  
 1.680 TYP

1.03  
 .625  
 .288  
 2.88 MAX

1.312

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

REVISIONS				
ED	LTR	DESCRIPTION	DATE	APPROVED

INDICATOR CIRCUITRY

NOMINAL VOLTAGE

TTL CONTROL

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

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1 2 3 4 5 6

1 2 3 4 5 6

**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	1.10:1	1.15:1	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	60 dB	60 dB	60 dB	70 dB	70 dB
POWER MAX CW	1200	600	600	500	400

IMPEDANCE 50 OHM

**ELECTRICAL:**  
 VOLTAGE 22 TO 38 VDC  
 CURRENT 200 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: 8 mA  
 CURRENT HIGH: 1.75 mA MAX @ 5 V

**SWITCHING TIME** 15 MILLISECONDS MAX.

**MECHANICAL:**  
 MATERIAL ALUMINUM IRF 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

REV.	DATE	DESCRIPTION	BY	CHKD	APP'D

MODEL #	HOC22GNL71
DATE	8/8/96
DESIGNER	LL
DRWING	LL
APPROVED	
APPROVED	
ARTIST	
REV.	

NEXT ASSY	USED ON	PRICE	SCALE	UNIT WT	SHEET	OF

HOC22GNL71

## WARRANTY

LOGUS MICROWAVE CORPORATION WARRANTS EACH PRODUCT OF ITS MANUFACTURE TO BE FREE FROM ANY DEFECT IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER SHIPMENT. ALL WARRANTY RETURNS, HOWEVER, MUST FIRST BE AUTHORIZED BY A FACTORY OFFICE REPRESENTATIVE.

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