



HIGH POWER COAXIAL SWITCHES, TYPE "N"

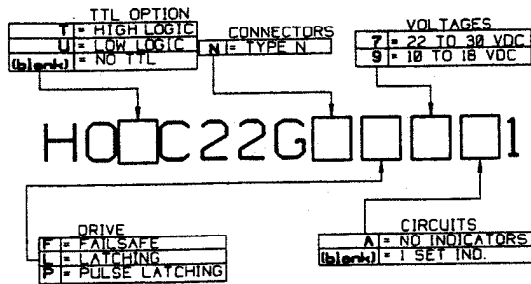
HC22G SERIES

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.



INDICATOR CIRCUITRY
 4 POS 1
 5 IND COM
 6 POS 2

NOMINAL VOLTAGE
 + VDC
 - RETURN
 2 POS 2
 1 POS 1

TTL CONTROL
 1
 2
 3
 4

SCHMATIC DIAGRAM SHOWN IN POSITION 1

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

1.900 TYP
 1.688 TYP
 2.88 MAX
 .625
 .280
 1.912
 .03
 #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

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	80 dB	80 dB	80 dB	70 dB	70 dB
POWER MAX CW	1200	800	600	500	400

IMPEDANCE 50 OHM

ELECTRICAL:
 VOLTAGE 22 TO 30 VDC
 CURRENT 200 mA MAX @ 20 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 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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	MODEL #	
TOLERANCES	HOTC22GNL71	
DECIMAL FRACTIONS	DRAWN 8/8/96 Ltz	
PLACES 1/16 1/32 1/64	CHECKED	
PLACES 1/8 1/4 3/8 1/2	APPROVED	HIGH POWER COAXIAL SWITCH, DPDT, TYPE "N", TTL, LATCHING, W/INDICATORS
ANGLES V2 DEG.	APPROVED	
MATERIAL:		
NEXT ASSY USED ON	FINISH	
APPLICATION		SCALE UNIT WT SHEET 1 OF 1

HOTC22GNL71