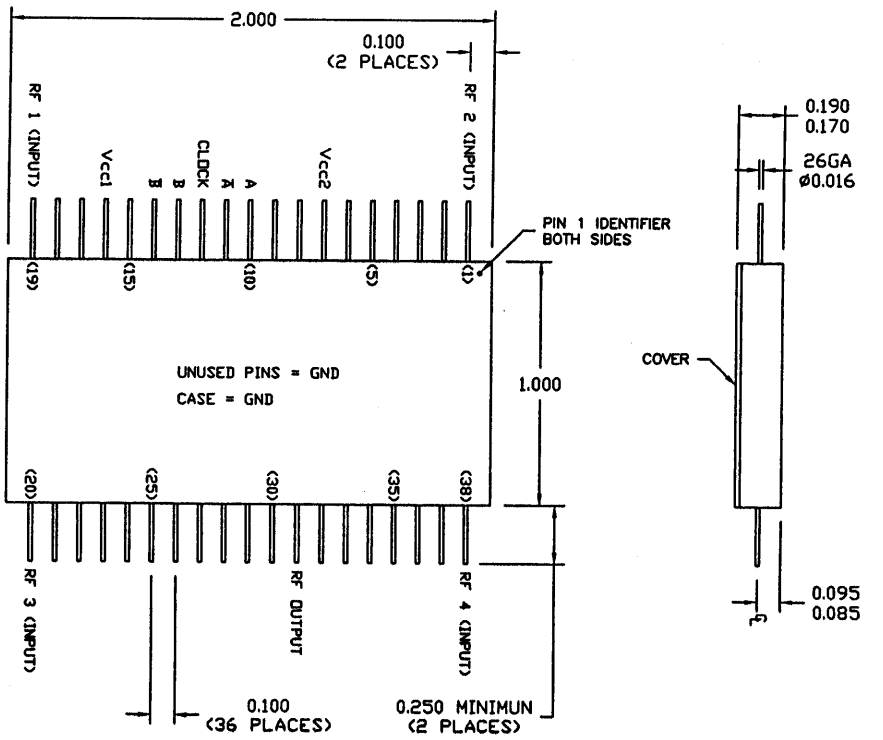
DESCRIPTION

AMC MODEL HMSN-4DT-G267450 OPTION: 1G3F IS A SINGLE POLE FOUR THROW, NON-REFLECTIVE/ABSORPTIVE, MICROCIRCUIT, HYBRID SWITCH WITH DECODER/DRIVER HERMETICALLY SEALED IN A 38-PIN METAL FLAT PACK, DESIGNED AND MANUFACTURED FROM 1.2 GHz TO 1.4 GHz.

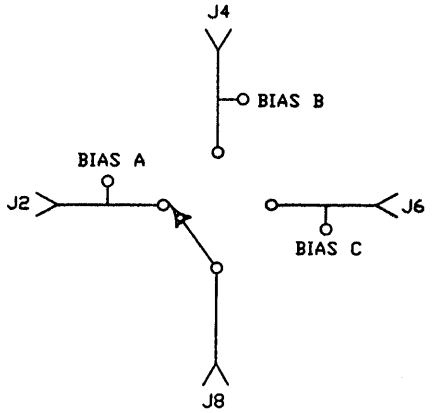
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL RELEASE	08/19/02	

SPECIFICATIONS:

- FREQUENCY: ..... 1.2 GHz TO 1.4 GHz
- INSERTION LOSS: ..... ABSORPTIVE: 2.1 dB MAXIMUM
- ISOLATION: ..... 60 dB
- VSWR: ..... ABSORPTIVE IN/OUT: 1.5:1
  ABSORPTIVE OUT/OFF: 1.5:1
- SPEED: ..... DELAY ON: 300ns
  DELAY OFF: 300ns
- RF POWER: ..... +16 dBm
  AT RF1, RF2, RF3 AND RF4
  SIMULTANEOUSLY
- CONTROL: ..... TTL LOGIC (SEE LOGIC TABLE)
- POWER SUPPLY: ..... +5 ±0.3V @ 140 mA MAX.
  −5 ±0.3V @ 40 mA MAX.
- SIZE ..... 2.00" (L) x 1.00" (W) x 0.19" (H)



BLOCK DIAGRAM



TRUTH TABLE					
A	B	$\overline{A}$	$\overline{B}$	CLOCK	RF OUTPUT
L	L	L	L	↑	RF 1
L	H	L	L	↑	RF 2
H	L	L	L	↑	RF 3
H	H	L	L	↑	RF 4
H	H	H	H	↑	RF 1
H	H	H	L	↑	RF 2
H	H	L	H	↑	RF 3
H	H	L	L	↑	RF 4

ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... −55°C TO +85°C (OPERATING)
  −65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ..... MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

CONTRACT NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE: OUTLINE DRAWING HMSN-4DT-G267450 OPTION: 1G3F MICROCIRCUIT HYBRID SWITCH		
DRAWN KAB	08/19/02			
CHECKED	10/9/02			
ISSUED KAB	10/15/02	SIZE A	FSCM NO. 60483	DWG NO. 100-6440 REV. –
	10/15/02	SCALE N/S		SHEET 1 of 3