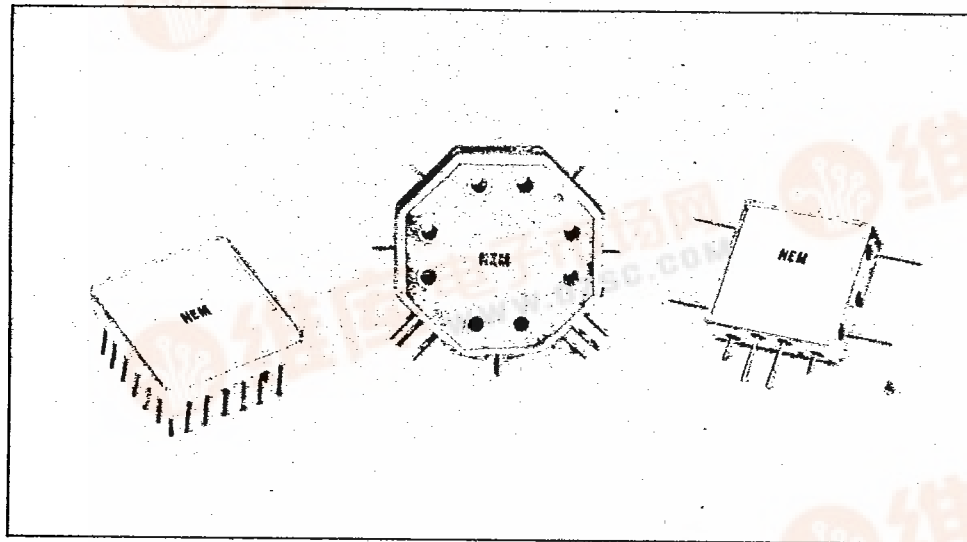


# Single Pole Four Throw



LOW BAND 10 MHz to 1000 MHz (GaAs MMIC)

HIGH BAND 1 GHz to 18.5 GHz (PIN Diode)

## DESCRIPTION

- GaAs, MMIC and PIN diode technology
- High reliability
- Hermetically-sealed
- Operates from -55°C to +125°C
- Wide bandwidth: 10 MHz to 18.5 GHz
- 10 MHz PRR
- 25 ns delay
- 5 ns rise/fall
- 60 dB Iso
- VSWR 2:1
- Integral ECL or TTL drivers

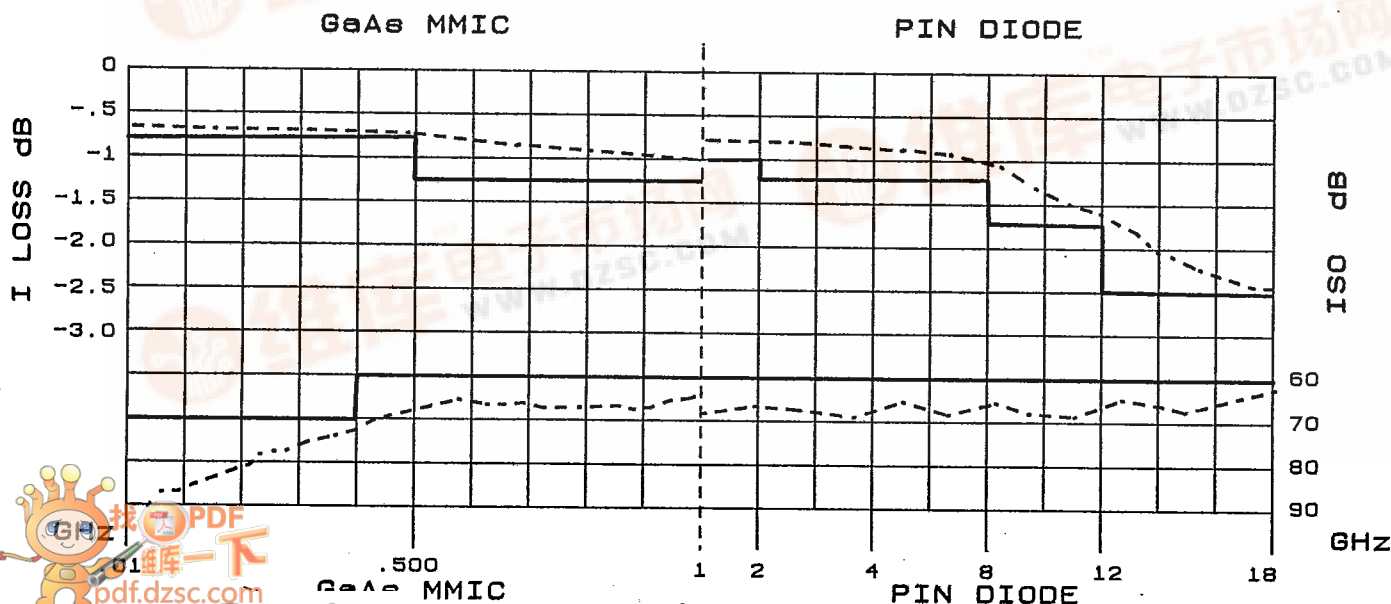
## CUSTOM OPTIONS

- VSWR 1.4:1
- Non-reflective
- Ultra-fast 2 ns rise/fall
- Low transient
- Low pulse and intermod distortion

## SCREENING

|                   |             |       |             |
|-------------------|-------------|-------|-------------|
| Bond Pull         | NEM J10003  | 1%AQL | MIL-STD-105 |
| Internal Visual   | NEM J10006  | 100%  |             |
| Temperature Cycle | MIL-STD-883 | 100%  | Method 1010 |
| Gross Leak        | MIL-STD-883 | 100%  | Method 1014 |
| External Visual   | MIL-STD-883 | 100%  | Method 2009 |

## TYPICAL PERFORMANCE CHARACTERISTICS



34E D 6111742 0000348 9 MRO

# NEW ENGLAND MICRONETICS

T-51-11

A-29-25

## Table A

| LOGIC |    |    |    | RF     |        |        |        |
|-------|----|----|----|--------|--------|--------|--------|
| E1    | E2 | E3 | E4 | J0-J1  | J0-J2  | J0-J3  | J0-J4  |
| 1     | 0  | 0  | 0  | I LOSS | ISO    | ISO    | ISO    |
| 0     | 1  | 0  | 0  | ISO    | I LOSS | ISO    | ISO    |
| 0     | 0  | 1  | 0  | ISO    | ISO    | I LOSS | ISO    |
| 0     | 0  | 0  | 1  | ISO    | ISO    | ISO    | I LOSS |
| 0     | 0  | 0  | 0  | ISO    | ISO    | ISO    | ISO    |

| LOGIC |    |    | RF     |        |        |        |
|-------|----|----|--------|--------|--------|--------|
| A0    | A1 | A2 | J0-J1  | J0-J2  | J0-J3  | J0-J4  |
| 1     | 0  | 0  | I LOSS | ISO    | ISO    | ISO    |
| 0     | 1  | 0  | ISO    | I LOSS | ISO    | ISO    |
| 1     | 1  | 0  | ISO    | ISO    | I LOSS | ISO    |
| 0     | 0  | 1  | ISO    | ISO    | ISO    | I LOSS |

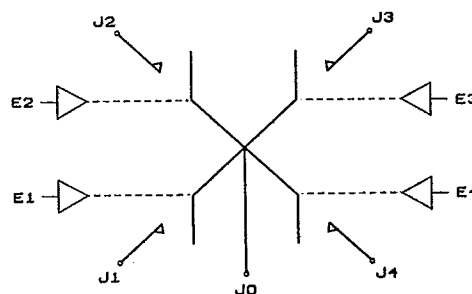
## LOGIC CODES

|   |        |
|---|--------|
| 1 | TTL    |
| 2 | ECL    |
| 3 | ANALOG |

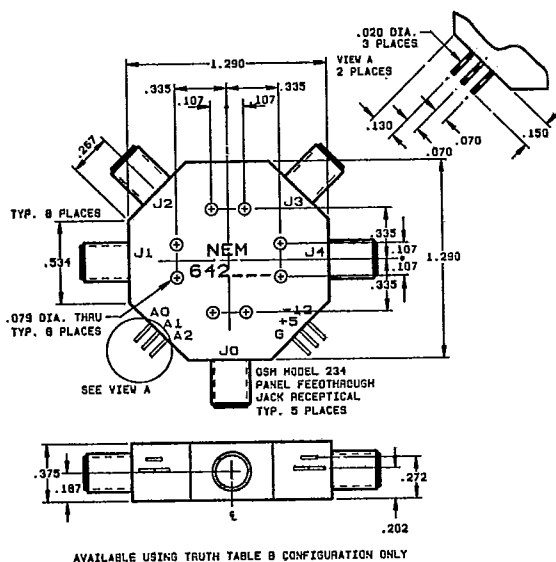
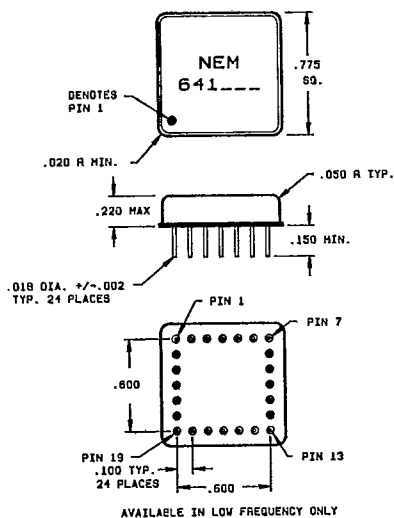
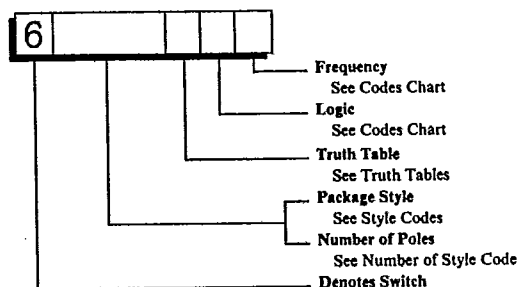
## FREQUENCY CODES

|   |      |                                  |
|---|------|----------------------------------|
| 1 | LOW  | 10 MHz TO 1 GHz<br>(GaAs MMIC)   |
| 2 | HIGH | 1 GHz TO 18.5 GHz<br>(PIN DIODE) |

### FUNCTIONAL DIAGRAM



## ORDERING INFORMATION



## Style Code 42

