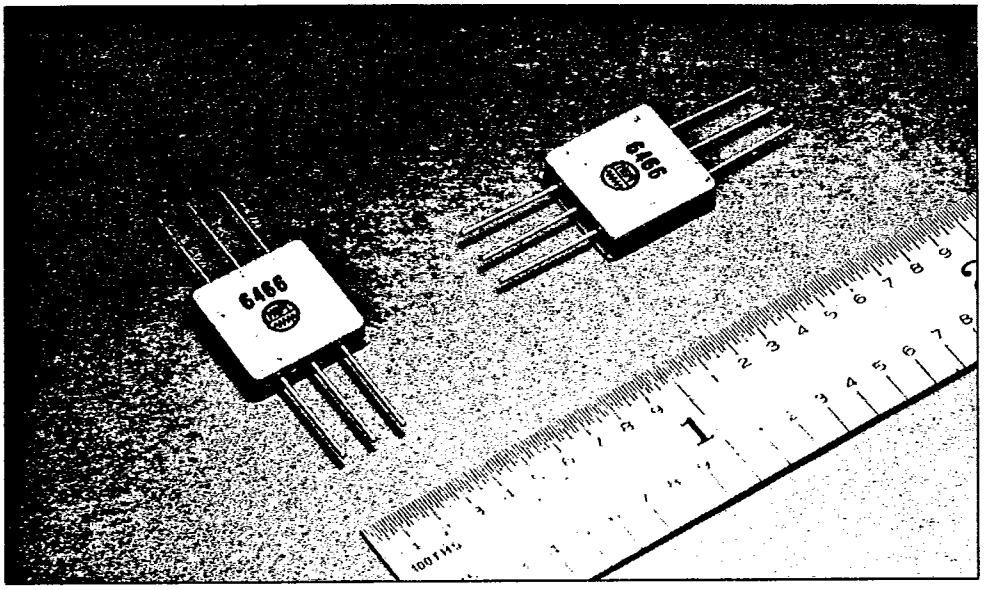
NEW ENGLAND MICROWAVE CORPORATION

SPDT UHF SWITCH
MODEL 6466



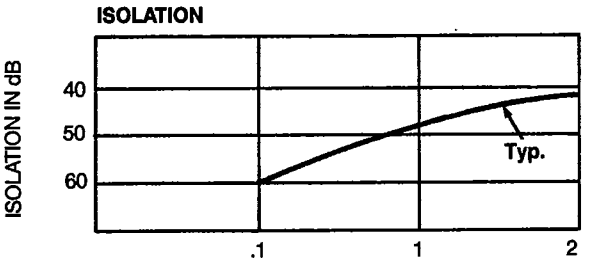
FEATURES

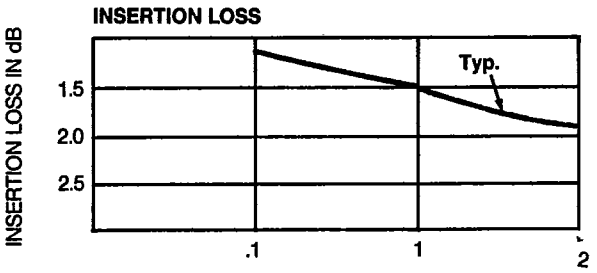
- 100 MHz to 1.5 GHz Frequency Range
- .375 inch square package, .125 thickness
- Integral TTL compatible Driver
- SP2T toggle configuration
- Single +5V supply @ 50 mA Max
- Low Cost High Reliability Design

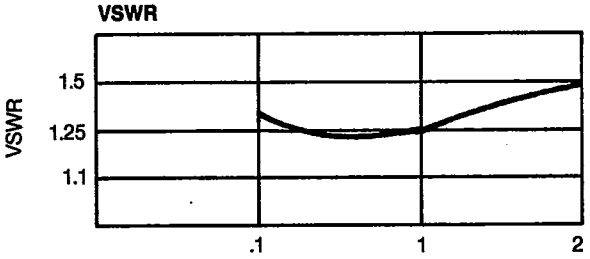
DESCRIPTION

New England Microwave's Low Cost UHF Switches address a broad range of switching requirements from 100 MHz to 1.5 GHz. Designed for high reliability, NEM UHF Switches operate over the entire military temperature range of -55°C to +125°C. Because we control the entire manufacturing process from production of PIN diode wafers through final assembly and testing, you can be sure that each UHF Switch will perform to exacting specifications.

If you don't see the exact combination of characteristics you are looking for, please call us. Chances are, we already have the right switch for your applications, or we will be able to design one with minimal additional cost.







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T-51-11

DETAILED SPECIFICATIONS

FREQUENCY
100 MHz to 1.5 GHz

INSERTION LOSS
2.0 dB Max

ISOLATION
.1 to .75 50dB
.75 to 1.5 40dB

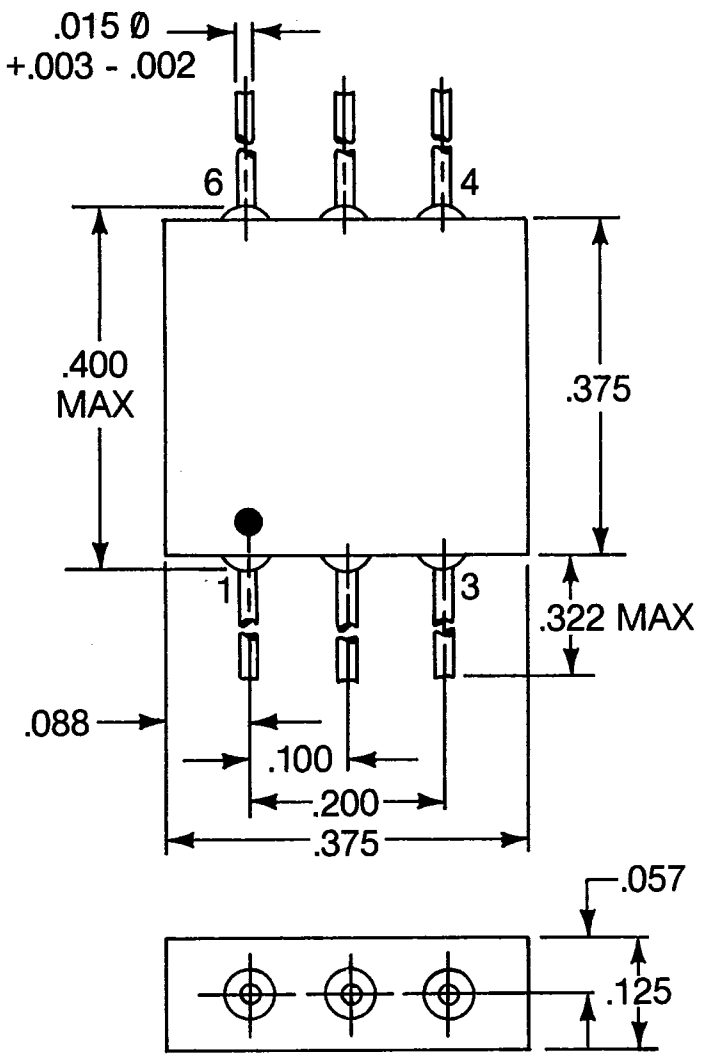
VSWR
1.5:1 Max, all ports

SWITCHING SPEED
50% TTL to 90% RF =
2μsec Max
50% TTL to 10% RF =
2μsec Max

LOGIC

V_C	J_1-Common	J_2-Common
L	IL	ISO
H	ISO	IL

POWER SUPPLY
+5V @ 50 mA Max
−15V @ 100 mA Max



SCREENING

NEM routinely performs the following MIL-STD-883 screening procedures on all hybrid devices produced:

Internal Visual (Precap)	Method 2017
Temperature Cycling	Method 1010
Seal Test Gross Leak	Method 1014

Additional screening including full compliance with MIL-STD-883,5008 is available at an additional cost.

Represented By:

PIN	CONNECTION	PIN	CONNECTION
1	+5V	4	L2 INPUT
2	V_C	5	GND
3	L1 INPUT	6	RF COMMON
		CASE	GND

TRUTH TABLE

PIN 2 LOGIC	LOW LOSS PATH	HIGH LOSS PATH
HIGH LOGIC	PIN 3 - PIN 6	PIN 4 - PIN 6
LOW LOGIC	PIN 4 - PIN 6	PIN 3 - PIN 6