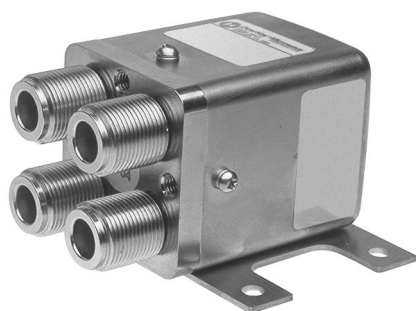




**DowKey®  
Microwave**  
CORPORATION



## DowKey® 412 Series Latching

### Specifications :

#### Operating Voltage:

(across temperature range)

12 Vdc (11-14 Vdc)

28 Vdc (24-32 Vdc)

#### Coil Current (Nominal):

12 Vdc 300 mA

28 Vdc 175 mA

#### Switching Time:

20 mS maximum

#### Operating Temperature:

-25°C to +65°C

#### Mechanical Life, Cycles:

1 x 10<sup>6</sup> minimum

#### Vibration, Operating:

10 G RMS, 20-2000 Hz

#### Mechanical Shock, Non-Operating:

30 G, 1/2 Sine, 11 mS

#### Nominal Weight:

14 oz., (397g.)

The DowKey Microwave 412 Series switches are designed for high performance, high power applications in microwave systems to 12.4 GHz. The RF path is optimized for Type "N" connectors. The DowKey designed connector features a mechanically captivated center conductor. This eliminates epoxy staking, and consequently, RF leakage. The switch is available with or without a mounting bracket.

### Typical applications for the 412 Series include:

- Switch Matrixes
- Standby Transmitters with Dummy Load
- Alternate Antenna Select

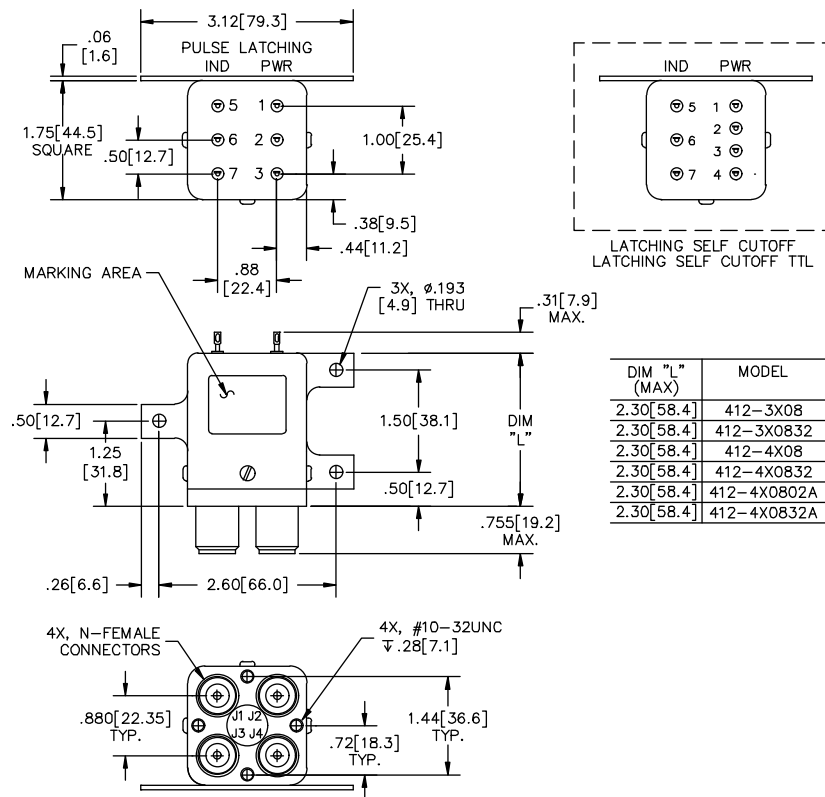
### RF Characteristics

Frequency GHz	VSWR (max)	Isolation dB (min)	Ins. Loss dB (max)	RF Power Watts (CW)
0-1	1.15	85	0.15	1000
1-2	1.20	80	0.20	350
2-4	1.25	70	0.25	250
4-8	1.35	65	0.35	150
8-12.4	1.50	60	0.50	120

### Connectors and Part Numbers

Nominal Coil Voltage	Connector Type	Standard	with Mechanical Indicators
<b>Pulse Latch</b>			
12 Vdc	N	412-3201	412-320132
28 Vdc	N	412-3301	412-330132
<b>Latching with Self Cut-Off</b>			
12 Vdc	N	412-4201	412-420132
28 Vdc	N	412-4301	412-430132
<b>Latching with Self Cut-Off, TTL Compatible</b>			
12 Vdc	N	412-420102A	412-420132A
28 Vdc	N	412-430102A	412-430132A

## Mechanical



## Available Options

Immersion Seal

Operating Voltages:  
15, 20, 24 Vdc

Jan TX TTL Drive Components

-55°C to +85°C Operation

BNC, TNC Connectors  
(Consult factory for  
RF characteristics)

DowKey Bracket

## Electrical

