

12 SPDT Latching Terminated 20 GHz Relays

Overview

The SM7012L is part of the SMIP//™ family, offering the extensive control and interfacing features provided by SMIP//™. Microwave relay technology has been pioneered to offer density, modularity and cost benefits.

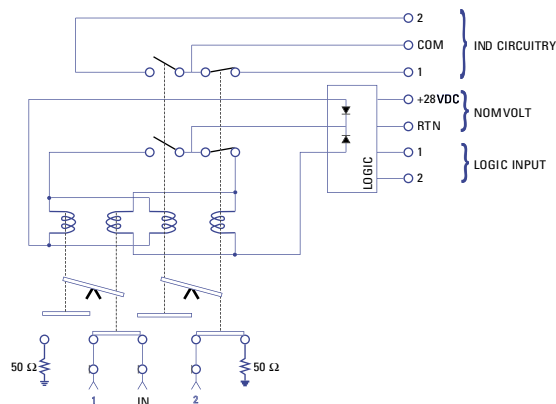
The SM7012L houses 12 microwave 20 GHz latching, self-terminated SPDT relays. In order to drive additional RF/Microwave components, such as attenuators, 32 SPST relays (non-latching) are also provided per SM7012L. Each SPDT relay includes isolated indicator circuitry, allowing the status of the relays to be read directly via the VXI backplane. Even after power is cycled, this allows users to determine the relay position.

For applications where a small mixture of self-terminated SPDT and multiposition switches are needed, refer to the SM7013L and SM7016L modules.

Specifications

Maximum Power Handling (CW)	< 100 W @ 3 GHz < 40 W @ 20 GHz < 1 W into termination
Switching Time:	<15 ms
RF Impedance:	50 Ω
Connectors:	SMA

Frequency (GHz)	dc-3	3-8	8-12.4	12.4-20
Isolation (dB min)	80	70	60	60
Insertion Loss (dB max)	0.2	0.3	0.4	0.5
VSWR min	1.2:1	1.3:1	1.4:1	1.5:1



Features

dc to 20 GHz

Designed for Applications (i.e. Space, Communications) that Require a Continuous Signal During Power Cycles

12 Latching Self-terminated SPDT 20 GHz Relays

Switches Include Indicator Circuitry for Real-time Status FeedBack

An Additional 32 SPST Relays are Provided to Drive External Devices such as Attenuators

Non-latching version available (SM7012)

Ordering Information

SM7012L	12 SPDT 20 GHz latching, Self-terminated relays
SM7012	12 SPDT 20 GHz Self-terminated relays