



40 GHz Microwave Switch

Overview

The SM7002 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 SM7002 base unit can house up to four 40 GHz microwave multi-position relays. In order to drive additional RF/Microwave components, such as attenuators or splitters, 32 SPST relays are also included.

The SM7002 can be easily modified to house alternative microwave building blocks (i.e., terminated SPDT relays or 1 x 4s), and controlled using the same instrument drivers and control logic found throughout the SMIP//™ family. Since the combination of relays is vast, not all configurations have been listed.

Features

dc to 40 GHz

Up to 4 1x6 40 GHz Relays per SM7002

An Additional 32 SPST Relays are Provided to Drive External Devices

Can be Combined with Other Microwave Switches on the Same VXIbus Module for Optimum Configuration

Custom Configurations Available

Specifications

Maximum Power per Channel:	3 W @ 40 GHz
Switching Time:	<15 ms
RF Impedance:	50 Ω
Connector:	APC 2.4

Frequency(GHz)	dc-6	6-12	12-18	18-26.5	26.5-40
Isolation (dB min)	70	60	60	55	50
Insertion Loss (dB max)	0.2	0.4	0.5	0.7	0.9
VSWR min	1.3:1	1.4:1	1.5:1	1.7:1	2.0:1

Ordering Information

SM7002	One SP6T 40 GHz relay
SM7002-2	Two SP6T 40 GHz relays
SM7002-3	Three SP6T 40 GHz relays
SM7002-4	Four SP6T 40 GHz relays

SM7002

