

MICROWAVE SWITCHES

Switching Series | PXIe Test And Measurement Suite

SMX-7XXX SERIES

The VTI Instruments SMX-7XXX Series of microwave switch cards extends functionality typically reserved for dedicated stand-alone systems into the PXIe form-factor. Single and dual slot configurations provide the ability to mix and match multiple switch configurations including SPDT, SP4T, SP6T and Transfer switching. Embedded virtual schematic control further simplifies setup and debugging allowing all relays to be engaged independent of application software and device drivers.

Ideally suited for all automated test equipment (ATE) requiring Microwave bandwidth, the SMX-7XXX Series deliver uncompromised measurement integrity ideal for the most demanding aerospace, defense and communication applications.



Features

- 6 to 67 GHz
- Single and Dual Slot Carriers
- Embedded Virtual Schematic Control
- Software-configurable
- Embedded health monitoring
- Improved test reliability
- Exceptional noise immunity
- Efficient high-density packaging
- Interactive schematic control
- 3 Year warranty

ATE MARKETS & APPLICATIONS

- › AVIONICS
- › ELECTRONICS
- › OIL AND GAS
- › AUTOMOTIVE
- › DEFENSE AND AEROSPACE
- › ENERGY / POWER GENERATION

SPECIFICATIONS

Frequency Range	6 - 67 GHz
Average Power Per Channel	See Manual for complete specifications
RF Impedance	50 Ω
Switching Time	< 10 ms
Connector Type	SMA, SMA 2.9, 2.4mm female, 1.85mm female

Specifications subject to change without notice.

ORDERING INFORMATION

MODEL	PART NO.	CONFIGURATION
SPDT		
SMX-7121-18	70-0409-509R	SINGLE SLOT WITH (1) SPDT 18 GHz MW SWITCH
SMX-7122-18	70-0409-517R	SINGLE SLOT WITH (2) SPDT 18 GHz MW SWITCH
SMX-7223-18	70-0409-525R	DUAL SLOT WITH (3) SPDT 18 GHz MW SWITCH
SMX-7224-18	70-0409-539R	DUAL SLOT WITH (4) SPDT 18 GHz MW SWITCH
SMX-7121-26	70-0409-543R	SINGLE SLOT WITH (1) SPDT 26.5 GHz MW SWITCH
SMX-7122-26	70-0409-510R	SINGLE SLOT WITH (2) SPDT 26.5 GHz MW SWITCH
SMX-7223-26	70-0409-518R	DUAL SLOT WITH (3) SPDT 26.5 GHz MW SWITCH
SMX-7224-26	70-0409-526R	DUAL SLOT WITH (4) SPDT 26.5 GHz MW SWITCH
SMX-7121-40	70-0409-540R	SINGLE SLOT WITH (1) SPDT 40 GHz MW SWITCH
SMX-7122-40	70-0409-544R	SINGLE SLOT WITH (2) SPDT 40 GHz MW SWITCH
SMX-7223-40	70-0409-533R	DUAL SLOT WITH (3) SPDT 40 GHz MW SWITCH
SMX-7224-40	70-0409-535R	DUAL SLOT WITH (4) SPDT 40 GHz MW SWITCH
SMX-7121-50	70-0409-537R	SINGLE SLOT WITH (1) SPDT 50 GHz MW SWITCH
SMX-7122-50	70-0409-541R	SINGLE SLOT WITH (2) SPDT 50 GHz MW SWITCH
SMX-7223-50	70-0409-545R	DUAL SLOT WITH (3) SPDT 50 GHz MW SWITCH

ORDERING INFORMATION (continued)

MODEL	PART NO.	CONFIGURATION
SPDT		
SMX-7224-50	70-0409-534R	DUAL SLOT WITH (4) SPDT 50 GHz MW SWITCH
SMX-7121-67	70-0409-536R	SINGLE SLOT WITH (1) SPDT 67 GHz MW SWITCH
SMX-7122-67	70-0409-538R	SINGLE SLOT WITH (2) SPDT 67 GHz MW SWITCH
SMX-7223-67	70-0409-542R	DUAL SLOT WITH (3) SPDT 67 GHz MW SWITCH
SMX-7224-67	70-0409-546R	DUAL SLOT WITH (4) SPDT 67 GHz MW SWITCH
SMX-7241-06	70-0409-503R	DUAL SLOT WITH (1) SP4T 6 GHz MW SWITCH
SMX-7242-06	70-0409-519R	DUAL SLOT WITH (2) SP4T 6 GHz MW SWITCH
SMX-7243-06	70-0409-527R	DUAL SLOT WITH (3) SP4T 6 GHz MW SWITCH
SMX-7241-26	70-0409-504R	DUAL SLOT WITH (1) SP4T 26.5 GHz MW SWITCH
SMX-7242-26	70-0409-520R	DUAL SLOT WITH (2) SP4T 26.5 GHz MW SWITCH
SMX-7243-26	70-0409-528R	DUAL SLOT WITH (3) SP4T 26.5 GHz MW SWITCH
SMX-7241-40	70-0409-505R	DUAL SLOT WITH (1) SP4T 40 GHz MW SWITCH
SMX-7242-40	70-0409-521R	DUAL SLOT WITH (2) SP4T 40 GHz MW SWITCH
SMX-7243-40	70-0409-529R	DUAL SLOT WITH (3) SP4T 40 GHz MW SWITCH
SP6T		
SMX-7261-06	70-0409-506R	DUAL SLOT WITH (1) SP4T 6 GHz MW SWITCH
SMX-7262-06	70-0409-522R	DUAL SLOT WITH (2) SP4T 6 GHz MW SWITCH
SMX-7263-06	70-0409-530R	DUAL SLOT WITH (3) SP4T 6 GHz MW SWITCH
SMX-7261-26	70-0409-507R	DUAL SLOT WITH (1) SP4T 26.5 GHz MW SWITCH
SMX-7262-26	70-0409-523R	DUAL SLOT WITH (2) SP4T 26.5 GHz MW SWITCH
SMX-7263-26	70-0409-531R	DUAL SLOT WITH (3) SP4T 26.5 GHz MW SWITCH
SMX-7261-40	70-0409-508R	DUAL SLOT WITH (1) SP4T 40 GHz MW SWITCH
SMX-7262-40	70-0409-524R	DUAL SLOT WITH (2) SP4T 40 GHz MW SWITCH
SMX-7263-40	70-0409-532R	DUAL SLOT WITH (3) SP4T 40 GHz MW SWITCH
TRANSFER SW		
SMX-72T1-26	70-0409-551R	DUAL SLOT WITH (1) 26.5 GHz TRANSFER SWITCH
SMX-72T2-26	70-0409-554R	DUAL SLOT WITH (2) 26.5 GHz TRANSFER SWITCH
SMX-72T1-40	70-0409-557R	DUAL SLOT WITH (1) 40 GHz TRANSFER SWITCH
SMX-72T2-40	70-0409-552R	DUAL SLOT WITH (2) 40 GHz TRANSFER SWITCH
SMX-72T1-50	70-0409-555R	DUAL SLOT WITH (1) 50 GHz TRANSFER SWITCH
SMX-72T2-50	70-0409-558R	DUAL SLOT WITH (2) 50 GHz TRANSFER SWITCH

20230201