DATA SHEET	
	EX1200-6102 17-CHANNEL (1 X 2) COAXIAL SWITCH
	FEATURES Highest density RF switches and matrices 50 W maximum switching power Can be mixed and matched to create application specific configurations Ideal for general purpose RF switching with high signal fidelity and total system bandwidths > 1 GHz No unterminated stub effects Excellent crosstalk and isolation specifications
VTI Instruments www.vtiinstruments.com RELIABLE DATA FIRS	ST TIME EVERY TIME

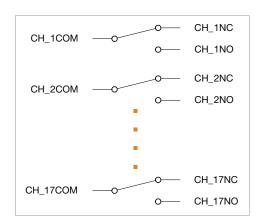
OVERVIEW

The EX1200-6102 is a high-density SPDT RF switch module designed for high-fidelity RF switching applications up to 1.3 GHz. Excellent crosstalk and isolation is maintained by using RF relays with bandwidths in excess of 2.0 GHz along with short, low-loss coaxial runs from connector directly to relays. All modules are also configured to avoid any unterminated stub effects, improving overall signal integrity and allowing for high frequency matrix designs and larger multiplexer configurations while maintaining bandwidth and VSWR.

The EX1200-6102 can be controlled programmatically using IVI-Switch compliant calls.

Both path level programming and individual relay control are available. Both single-wire and two-wire programming modes are available.

EX1200-6101 BLOCK DIAGRAM



General Specifications

CHANNEL COUNT	17 SPDT
RELAY TYPE	Electromechanical, fail-sat
MAXIMUM SWITCHING VOLTAGE	220 V DC, 250 V AC rms
MAXIMUM SWITCHING CURRENT	2 A
MAXIMUM SWITCHING POWER	50 W, 62.5 VA
RATED SWITCH OPERATIONS	
Mechanical	5 x 10 ⁶
Electrical	1 x 10 ⁵ at full load
SWITCHING TIME	< 5 ms
PATH RESISTANCE	< 0.250 Ω
INSULATION RESISTANCE	$> 1 \times 10^{9} \Omega$
BANDWIDTH (-3 dB)	1.3 GHz (typical)
INSERTION LOSS (TYPICAL)	
500 MHz	< 0.2 dB
1.3 GHz	< 2.0 dB
CROSSTALK (TYPICAL)	
500 MHz	< -60 dB
1.3 GHz	< -55 dB
ISOLATION (TYPICAL)	
500 MHz	< -65 dB
1.3 GHz	< -55 dB
VSWR (TYPICAL)	
500 MHz	< 1.11:1
1.3 GHz	< 2.92:1
CONNECTOR TYPE	Dual 26-pin
	•

Ordering Information

EX1200-6102	17-channel (1 X 2) coaxial switch	
ACCESSORIES AND TOOLS		
70-0150-000	26-pin mating connector and housing (2 required)	
70-0149-000	10-pin/ferrule kit (RG 316 50 Ω)	
70-0149-001	10-pin/ferrule kit (RG 178 50 Ω)	
46-0018-000	Crimp tool, coax RG316 (50 Ω)	
46-0018-001	Crimp tool, coax RG178 (50 Ω)	
46-0021-000	Tool, pin extractor, size 16 contact, AMP M series	

RELIABLE DATA FIRST TIME EVERY TIME

102

RELIABLE DATA FIRST TIME EVERY TIME

103