

EX1200-6301 EX1200-6301T

(4) SP4T 50 RF MULTIPLEXERS, 3 GHZ(4) SP4T 50 SELF-TERMINATED RFMULTIPLEXERS, 3 GHZ

FEATURES

Up to four SP4T RF multiplexer trees, > 3 GHz bandwidth

Suitable for switching RF signals to/from high bandwidth measurement devices such as oscilloscopes and function generators

50 W maximum switching power

50 Ω on-board self-termination option (EX1200-6301T)

SMB male connectors for high performance

No unterminated stub effects



RELIABLE DATA FIRST TIME EVERY TIME

110

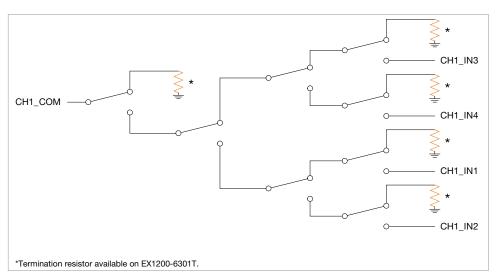
EX1200-6301 / 6301T (4) SP4T 50 RF Multiplexers, 3 GHz / (4) SP4T 50 Self-Terminated RF Multiplexers, 3 GHz

OVERVIEW

The EX1200-6301 is designed with SMB male connectors for applications that require RF signal switching greater than 3 GHz in a 50 Ω environment. Excellent crosstalk and isolation performance is achieved by using short low-loss coaxial runs from the connector directly to the relays. All modules are designed to avoid any unterminated stub effects improving overall signal integrity and enabling the construction of larger high frequency multiplexer configurations while maintaining bandwidth and VSWR.

Six of the modules can be accommodated in a single EX1200 full rack mainframe or combined with other switch modules to create a flexible switching configuration that can cover a wide range of applications.

BLOCK DIAGRAM



RELIABLE DATA FIRST TIME EVERY TIME

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General Specifications

CHANNEL COUNT

EX1200-6301

EX1200-6301T

RELAY TYPE

MAXIMUM SWITCHING VOLTAGE

MAXIMUM SWITCHING CURRENT

MAXIMUM SWITCHING POWER

RATED SWITCH OPERATIONS

Mechanical

Electrical

SWITCHING TIME

PATH RESISTANCE

INSULATION RESISTANCE

BANDWIDTH (-3 dB)

INSERTION LOSS (TYPICAL)

1 GHz

3 GHz

CROSSTALK (TYPICAL)

1 GHz

3 GHz

ISOLATION (TYPICAL)

1 GHz

3 GHz

VSWR (TYPICAL)

1 GHz

3 GHz

Dual (1 x 16) 50 Ω RF multiplexers, 3 GHz

Quad (4 x 1) self-terminated multiplexer, 3 GHz

Electromechanical, fail-safe

220 VDC, 250 VAC rms

2 A

50 W

5 x 10⁵

1 x 10⁵ (full load)

< 5 ms

< 1 Ω

 $> 1 \times 10^9 \,\Omega$

3 GHz (typical)

< 0.5 dB

< 3.0 dB

< -60 dB

< -55 dB

< -65 dB

< -55 dB

< 1.2:1

< 1.5:1

Ordering Information

EX1200-6301

(4) SP4T 50 Ω RF multiplexers, 3 GHz

EX1200-6301T

(4) SP4T 50 Ω self-terminated RF multiplexers, 1.5 GHz