

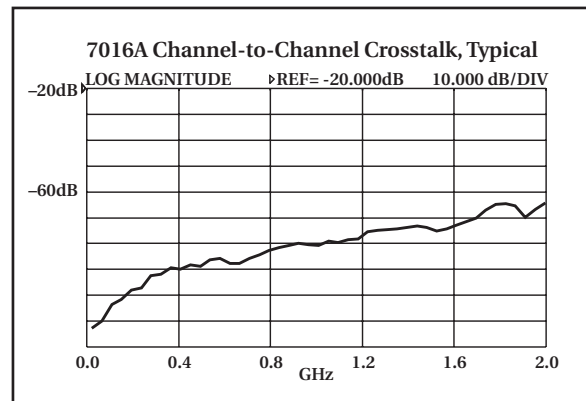
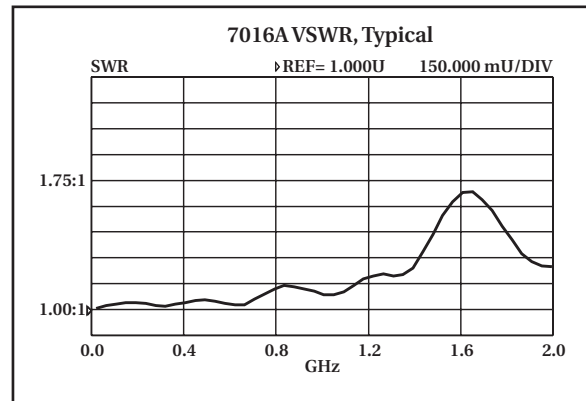
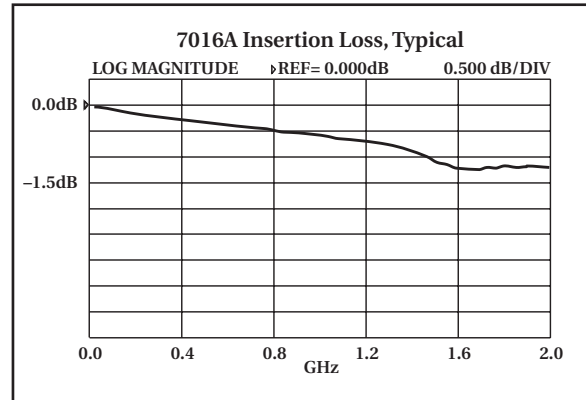
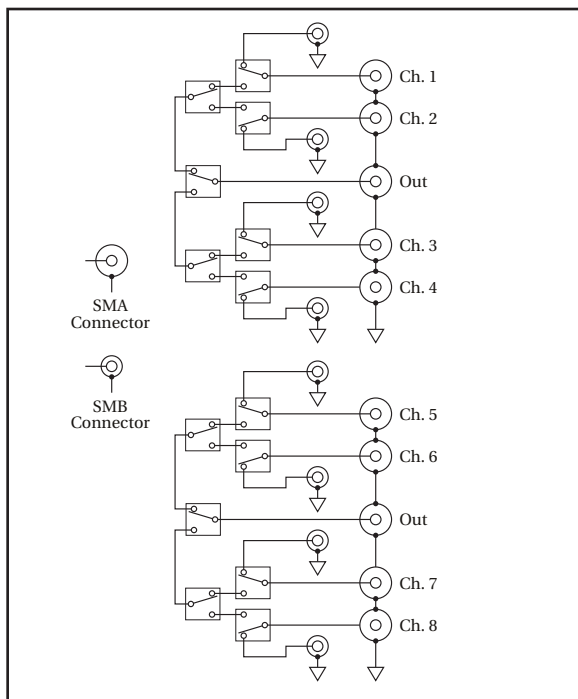
7016A 50Ω 2GHz Multiplexer

MULTIPLEXERS PER CARD: 2 (with isolated ground).
CHARACTERISTIC IMPEDANCE: 50Ω nominal.
CHANNELS PER MULTIPLEXER: 4.
CONTACT CONFIGURATION: 1 pole Form A common shield.
RELAY DRIVE CURRENT: 120mA.
CONNECTOR TYPE: SMA.
RECOMMENDED CABLE: RG-223/U.
TERMINATION: User supplied 50Ω SMB termination (on unselected inputs).
ACTUATION TIME: 8ms.
MAXIMUM VOLTAGE: Any terminal (center or shield) to any other center or chassis: 30V.
MAXIMUM CARRY CURRENT: 0.5A.
MAXIMUM CARRY POWER: 10VA up to 900MHz, 3VA @ 2GHz.
ISOLATION:
 Multiplexer to Multiplexer: >1GΩ.
 Center to Shield: >1GΩ, <50pF.
 Channel to Channel: >100MΩ.
RISE TIME: <200ps.
SIGNAL DELAY: <3ns; channels matched to 50ps.
CONTACT POTENTIAL: <6μV.
CONTACT RESISTANCE: 0.5Ω.
CONTACT LIFE: 3×10⁵ @ 30V @ 10mA.
 3×10⁵ @ 900MHz, 1W.
 1×10⁶ @ cold switching.
ENVIRONMENT: Operating: 0° to 50°C; up to 35°C at 80% RH.
 Storage: -25°C to 65°C.
EMC: Conforms with European Union Directive 89/336/EEC.
SAFETY: Conforms with European Union Directive 73/23/EEC.

AC PERFORMANCE:

For $Z_L = Z_S = 50\Omega$	≤10 MHz	≤100 MHz	≤500 MHz	≤1 GHz	≤2 GHz
Insertion Loss (dB):	<0.3	<0.6	<1.0	<1.3	<3.0
Crosstalk (dB): ¹					
Channel-Channel	<-90	<-80	<-65	<-55	<-45
Switch-Switch	<-90	<-80	<-70	<-65	<-45
VSWR	<1.06	<1.1	<1.2	<1.6	≤1.9

¹ Specification assumes 50Ω termination.



TYPICAL: Typical but not warranted parameter, intended to provide useful information for switch application.