

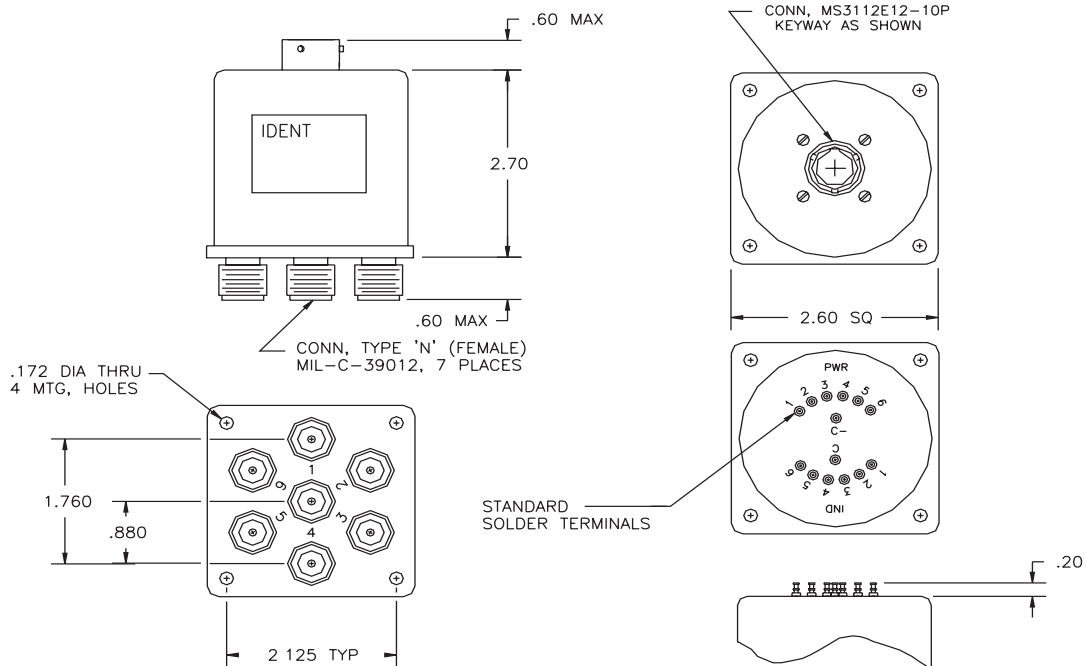
U3 - U6 SERIES SP3T - SP6T DC - 12.4 GHz



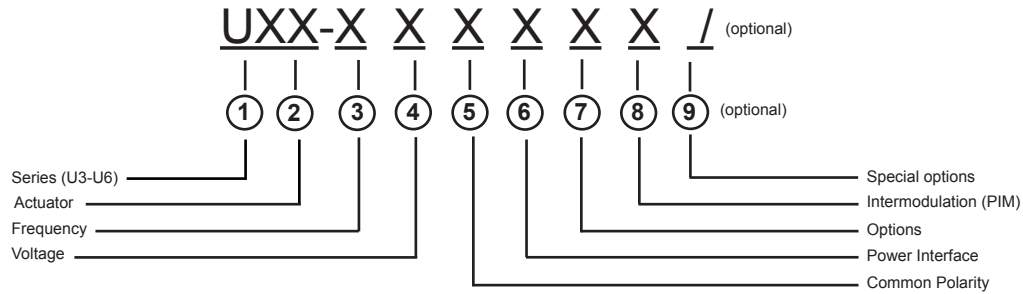
FREQUENCY: GHz	DC - 2.0	2.0 - 4.0	4.0 - 8.0	8.0 - 12.4
VSWR (MAX.)	1.20:1	1.30:1	1.40:1	1.50:1
INSERTION LOSS (MAX.)	0.20	0.30	0.40	0.50
ISOLATION (MIN.)	80	70	70	60
IMPEDANCE	50 Ohms			
MECHANICAL				
CONTACT	:	BREAK BEFORE MAKE		
ACTUATOR	:	FAILSAFE, LATCHING, MOMENTARY		
SWITCHING SPEED	:	20 mSEC MAX.		
ELECTRICAL				
ACTUATOR VOLTAGE	:	28.0, 12.0, 15.0, 24.0 Vdc		
ACTUATOR CURRENT	:	CONTACT CEI		
POWER HANDLING	:	350 WCW @ 1.0 GHz (STANDARD)		
	:	950 WCW @ 1.0 GHz (OPT. /P)		
ENVIRONMENTAL				
OPERATING TEMP	:	-40 DEG. C TO 80 DEG. C (STANDARD)		
	:	-54 DEG. C TO 90 DEG. C (OPT. /MS)		
SHOCK	:	50 G's (SAWTOOTH)		
RANDOM VIBRATION	:	15 G's rms (NON-OPERATING)		
LIFE	:	1,000,000 CYCLES		
FINISH				
RF CAVITY	:	ALUMINUM ELECTROLESS NICKEL PLATED PER MIL-C-26074, CLASS 4 (EXCEPT LOW OR ULTRA LOW IM MODELS)		
ENCLOSURE	:	ALUMINUM, BLACK OR BLUE		
CONTACT	:	BERYLLIUM COPPER, GOLD PLATED PER MIL-G-45204		
CONNECTOR SHELL	:	CRES, PASSIVATED PER QQ-P-35 OR BRASS, ELECTROLESS NICKEL PLATED PER MIL-C-26074		
NOTE	:	FINISH MAY VARY FOR /MS VERSION		
AVAILABLE OPTIONS				
INDICATOR CIRCUITRY	:	CUT OFF POWER CIRCUIT		
SUPPRESSION DIODE	:	MS CONNECTOR OR EQUIV. (MIL-SPEC)		
TTL LOGIC	:	D'SUB MINIATURE SERIES		
BCD TTL DECORDER	:	LOW, ULTRA, AND SUPERIOR (PIM)		

EACH MODEL NUMBER WILL HAVE A UNIQUE SCHEMATIC.

REFERENCE FOR DIMENSIONS ONLY
AVAILABLE WITH SOLDER TERMINALS, D'SUB OR MS CONNECTOR



U3-U6 SERIES PART NUMBER & ORDERING INFORMATION

**1 - Switch Series**

U3	SP3T TYPE N
U4	SP4T TYPE N
U5	SP5T TYPE N
U6	SP6T TYPE N

2 - Actuator

F	FAILSAFE	R	MOMENTARY
G	FAILSAFE WITH SUPPRESSION DIODE	S	MOMENTARY WITH SUPPRESSION DIODE
H	FAILSAFE WITH INDICATOR	T	MOMENTARY WITH INDICATOR
J	FAILSAFE WITH SUPPRESSION DIODE AND INDICATOR	U	MOMENTARY WITH SUPPRESSION DIODE AND INDICATOR
L	LATCHING	Y	OTHER (SPECIFY)
M	LATCHING WITH SUPPRESSION DIODE		
N	LATCHING WITH INDICATOR		
P	LATCHING WITH SUPPRESSION DIODE AND INDICATOR		

3 - Frequency Bandwidth

1	DC - 13.0 GHz
2	DC - 2.0 GHz
3	DC - 12.4 GHz
4	DC - 4.0 GHz
6	DC - 6.0 GHz

4 - Voltage

1	10 - 14 Vdc (12.0 NOMINAL)	4	26 - 30 Vdc (28.0 NOMINAL)
2	13 - 17 Vdc (15.0 NOMINAL)	5	OTHER
3	22 - 26 Vdc (24.0 NOMINAL)	0	NOT REQUIRED

5 - Common Polarity

1	POSITIVE (+) COMMON
2	NEGATIVE (-) OR RETURN Vdc COMMON
0	NOT REQUIRED

6 - Power Interface

1	SOLDER TERMINAL (TOP OF SWITCH)	5	D' SUB MINIATURE SERIES (TOP OF SWITCH)
3	CONN MS3112E-XX-XXP OR EQUIV. (TOP OF SWITCH)	8	OTHER

7 - Options

1	CUT OFF POWER CIRCUIT (LATCHING ONLY)	8	OTHER (SPECIFY)
2	TTL LOGIC	9	CUSTOM (ORDER)
3	CUT OFF PWR CIRCUIT & TTL LOGIC (LATCHING ONLY)	0	NO OTHER OPTIONS REQUIRED

8 - Intermodulation

7	LOW PASSIVE INTERMODULATION	9	ULTRA LOW PASSIVE INTERMODULATION
8	SUPERIOR PASSIVE INTERMODULATION	0	STANDARD SWITCH

9 - Special Options (optional - leave blank if not required)

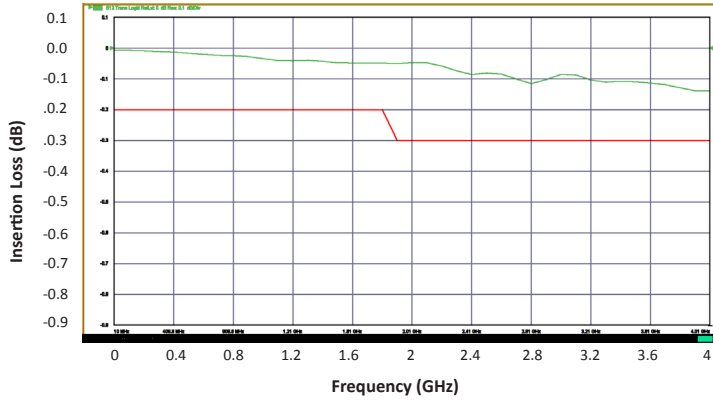
/P	HIGH TEMP, HIGH POWER CONNECTOR
/MS	EXTENDED TEMP RANGE -54 DEG C TO + 90 DEG
/MSP	HIGH TEMP, HIGH POWER CONNECTOR AND EXTENDED TEMP RANGE

SP3T - SP6T - U Series

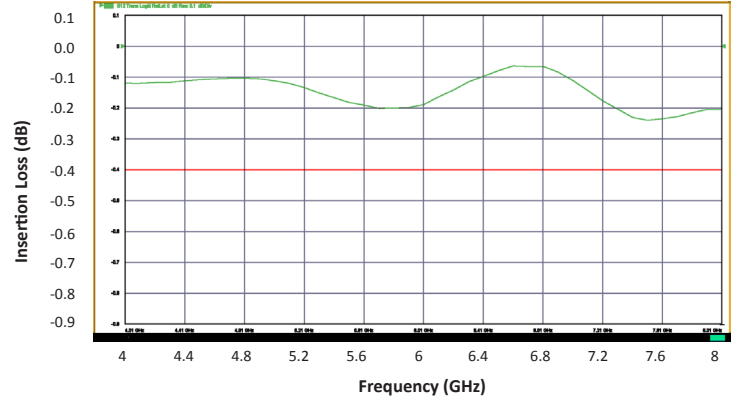
SP3T-SP6T, DC-14.0 GHz
 Failsafe, Latching, Momentary
 Type N

TYPICAL NARROWBAND INSERTION LOSS PERFORMANCE CURVES

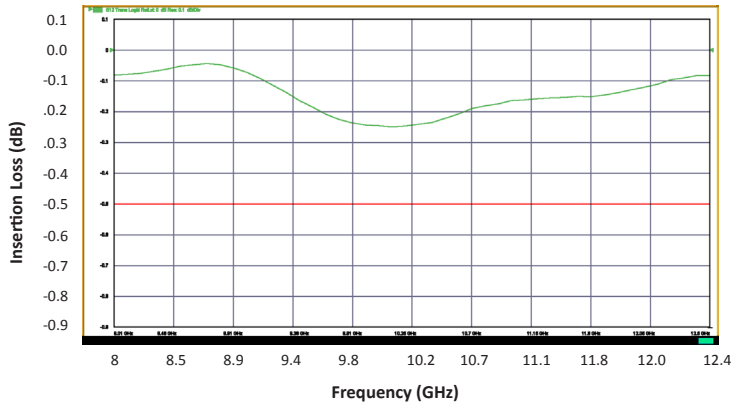
Insertion Loss (DC-4 GHz)



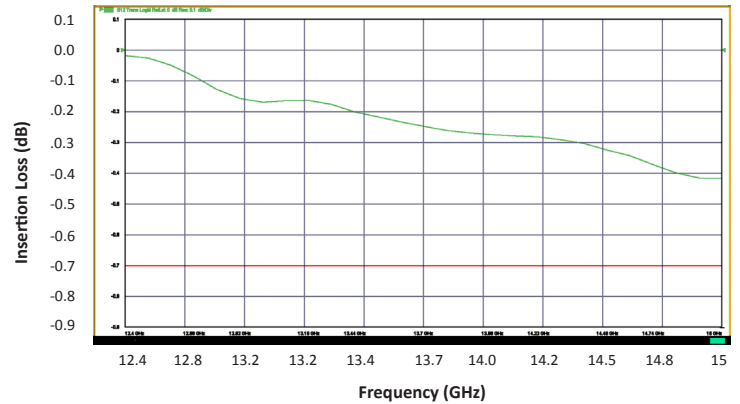
Insertion Loss (4-8 GHz)



Insertion Loss (8-12.4 GHz)



Insertion Loss (12.4-15 GHz)

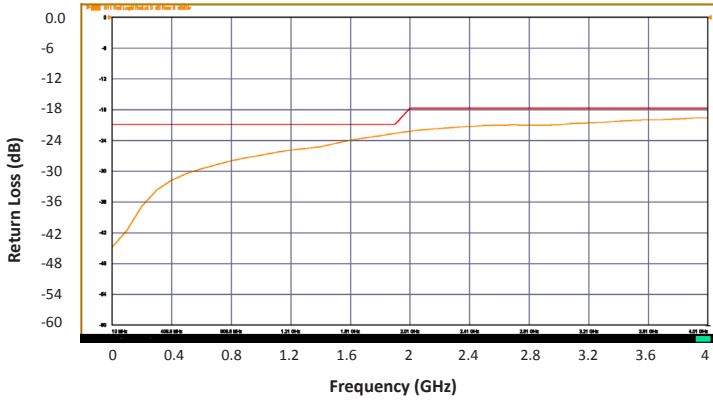


— TYPICAL
 — MAXIMUM TEST LIMIT

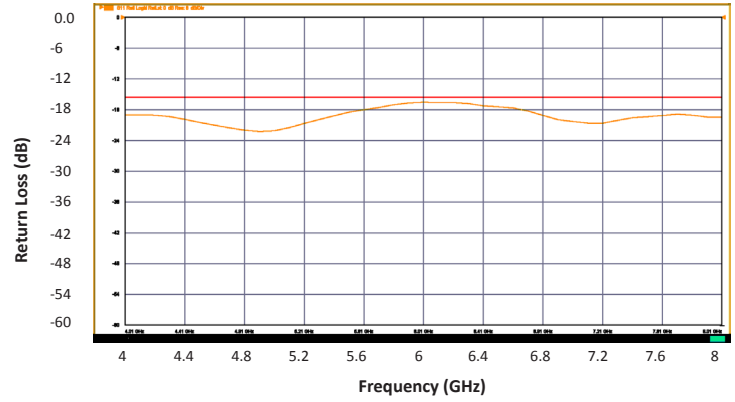
SP3T - SP6T - U6 Series

TYPICAL NARROWBAND RETURN LOSS PERFORMANCE CURVES

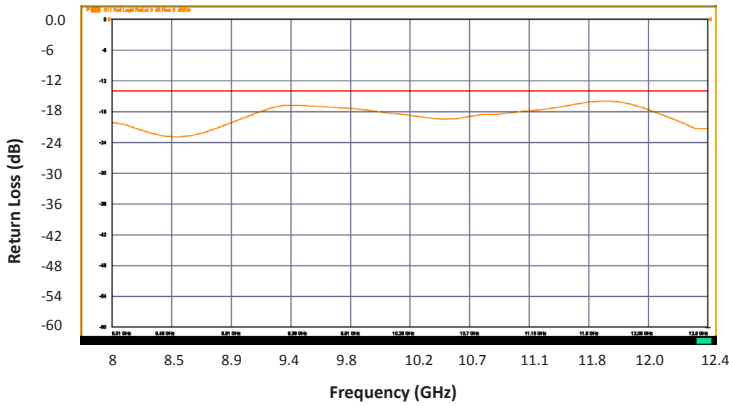
Return Loss (DC-4 GHz)



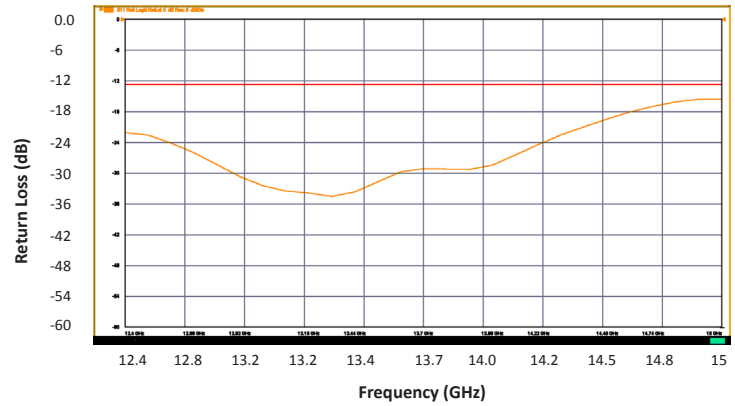
Return Loss (4-8 GHz)



Return Loss (8-12.4 GHz)



Return Loss (12.4-15 GHz)

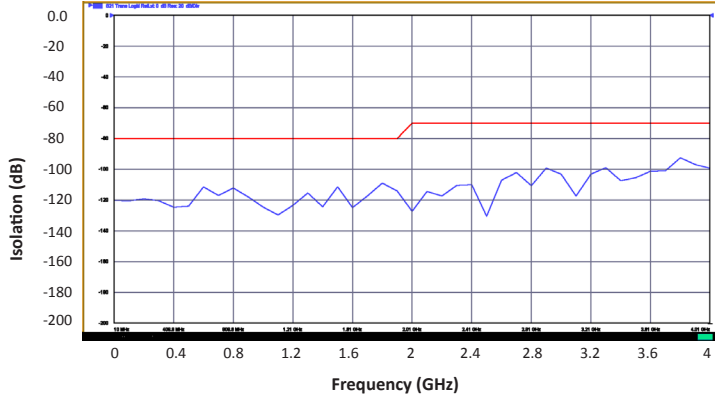


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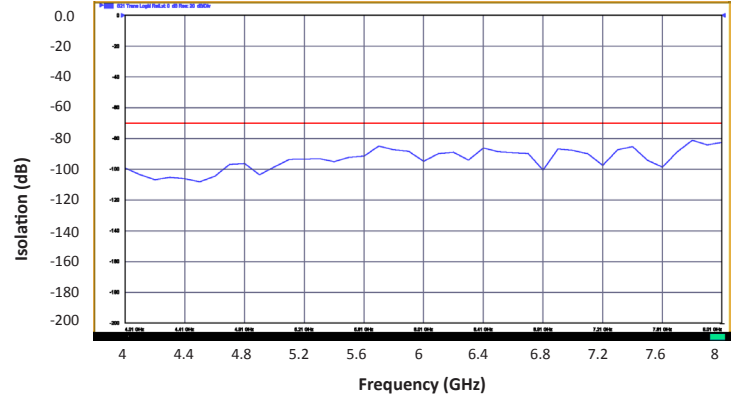
SP3T - SP6T - U6 Series

TYPICAL NARROWBAND ISOLATION PERFORMANCE CURVES

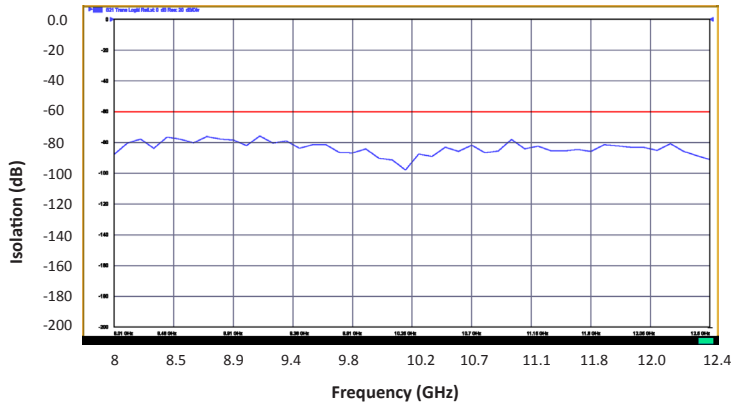
Isolation (DC-4 GHz)



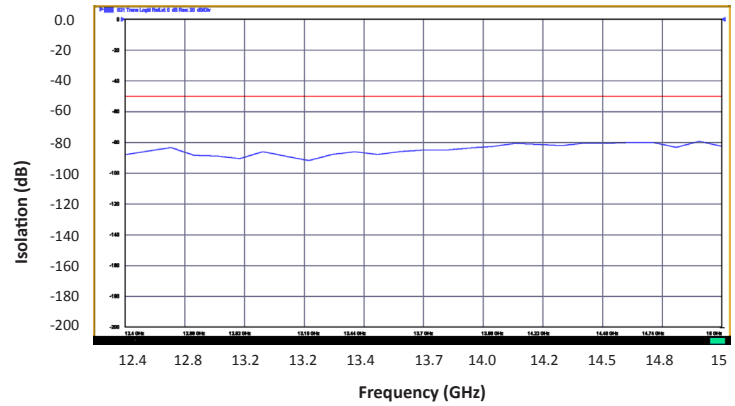
Isolation (4-8 GHz)



Isolation (8-12.4 GHz)



Isolation (12.4-15 GHz)



— TYPICAL
 — MAXIMUM TEST LIMIT