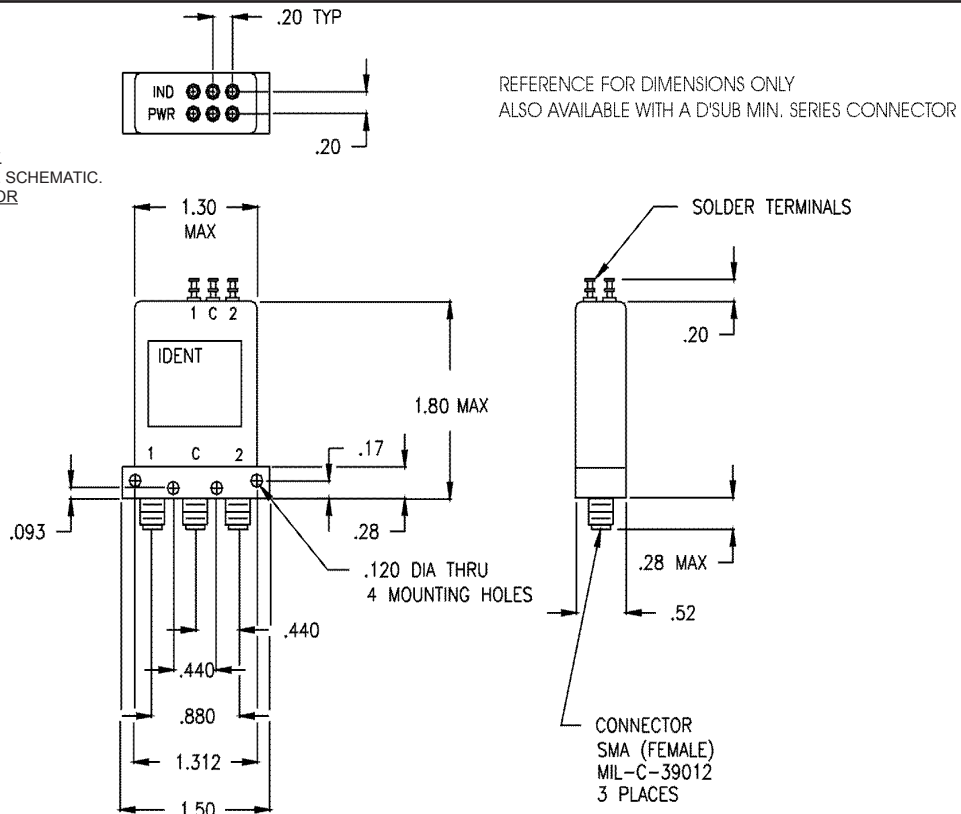


# B3 SERIES SP2T DC - 26.5 GHz

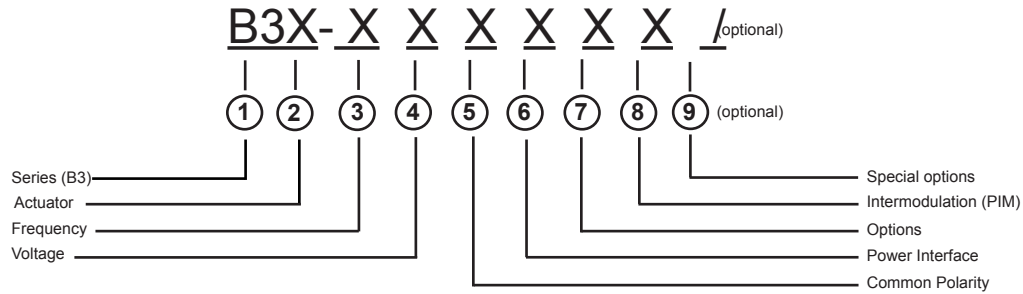


<b>FREQUENCY:</b> GHz	DC - 2.0	2.0 - 4.0	4.0 - 8.0	8.0 - 12.4	12.4 - 18.0	18.0 - 26.5
<b>VSWR (MAX.)</b>	1.20:1	1.25:1	1.30:1	1.40:1	1.50:1	1.65:1
<b>INSERTION LOSS (MAX.)</b>	0.20	0.25	0.30	0.40	0.50	0.70
<b>ISOLATION (MIN.)</b>	90	80	80	70	60	50
<b>IMPEDANCE</b>	50 Ohms					
<b>MECHANICAL</b>						
CONTACT ACTUATOR SWITCHING SPEED	BREAK BEFORE MAKE FAILSAFE, LATCHING, MOMENTARY 20 mSEC MAX.					
<b>ELECTRICAL</b>						
ACTUATOR VOLTAGE ACTUATOR CURRENT POWER HANDLING	28.0, 12.0, 15.0, 24.0 Vdc CONTACT CEI 200 WCW @ 1.0 GHz (STANDARD) 300 WCW @ 1.0 GHz (OPT. /P)					
<b>ENVIRONMENTAL</b>						
OPERATING TEMP	-40 DEG. C TO 85 DEG. C (STANDARD) -54 DEG. C TO 90 DEG. C (OPT. /MS) ** (OPT /MS NOT AVAILABLE WITH TTL LOGIC)					
SHOCK RANDOM VIBRATION LIFE	50 G's (SAWTOOTH) 15 G's rms (NON-OPERATING) 1,000,000 CYCLES					
<b>FINISH</b>						
RF CAVITY ENCLOSURE CONTACT CONNECTOR SHELL	ALUMINUM ELECTROLESS NICKEL PLATED PER MIL-C-26074, CLASS 4 (EXCEPT LOW OR ULTRA LOW IM MODELS) ALUMINUM, BLUE BERYLLIUM COPPER, GOLD PLATED PER MIL-G-45204 CRES, PASSIVATED PER QQ-P-35 OR BRASS, ELECTROLESS NICKEL PLATED PER MIL-C-26074					
NOTE	FINISH MAY VARY WITH /MS VERSION					
<b>AVAILABLE OPTIONS</b>						
INDICATOR CIRCUITRY SUPPRESSION DIODE TTL LOGIC LOW, ULTRA LOW, AND SUPERIOR INTERMODULATION (IM)	CUT OFF POWER CIRCUIT D'SUB MINIATURE SERIES CUSTOM DESIGNS					

NOTE: REFERENCE FOR DIMENSIONS ONLY.  
EACH MODEL NUMBER WILL HAVE A UNIQUE SCHEMATIC.  
ALSO AVAILABLE WITH A D'SUB CONNECTOR



## B3 SERIES PART NUMBER &amp; ORDERING INFORMATION

**1 - Switch Series**

B3 SPDT SMA

**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	6	DC - 6.0 GHz
2	DC - 2.0 GHz	7	DC - 26.5 GHz
3	DC - 12.4 GHz	8	DC - 20.0 GHz
4	DC - 4.0 GHz	0	OTHER (SPECIFY)
5	DC - 18.0 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)
		8	OTHER

**7 - Options**

1	CUT OFF POWER CIRCUIT (LATCHING ONLY)	8	OTHER (SPECIFY)
2	TTL LOGIC (NOT AVAILABLE WITH OPTION /MS)	9	CUSTOM (ORDER)
3	CUT OFF PWR CIRCUIT & TTL LOGIC (LATCHING ONLY)	0	NO OTHER OPTIONS REQUIRED
4	BCD TTL DECODER (NOT AVAILABLE WITH OPTION /MS)		

**8 - Intermodulation**

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

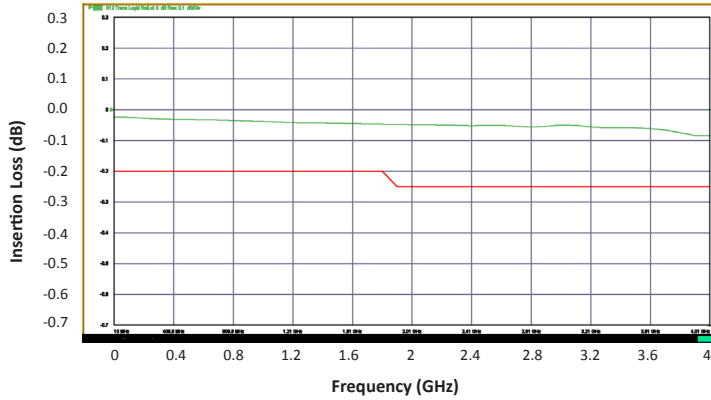
**9 - Special Options (optional - leave blank if not required)**

/P	HIGH TEMP, HIGH POWER CONNECTOR
/MS	EXTENDED TEMP RANGE -54 DEG C TO + 90 DEG (NOT AVAILABLE WITH TTL LOGIC OPTION OR BCD DECODER)
/MSP	HIGH TEMP, HIGH POWER CONNECTOR AND EXTENDED TEMP RANGE (NOT AVAILABLE WITH TTL LOGIC OPTION OR BCD DECODER)

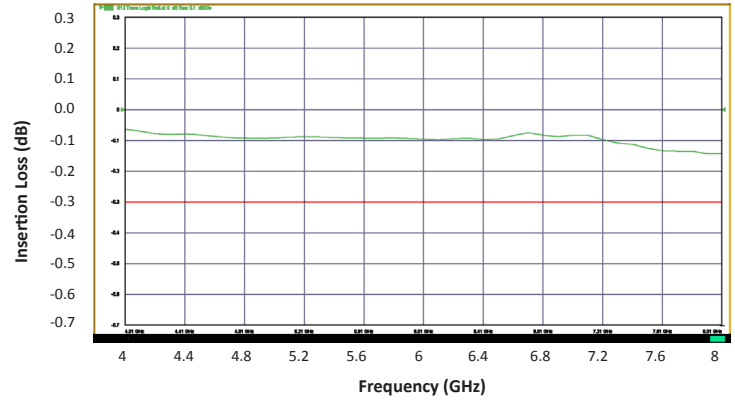
# SPDT - B3 Series

## TYPICAL NARROWBAND INSERTION LOSS PERFORMANCE CURVES

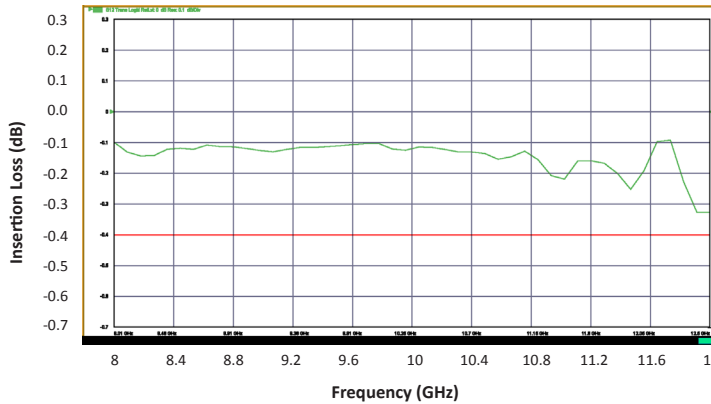
Insertion Loss (DC-4 GHz)



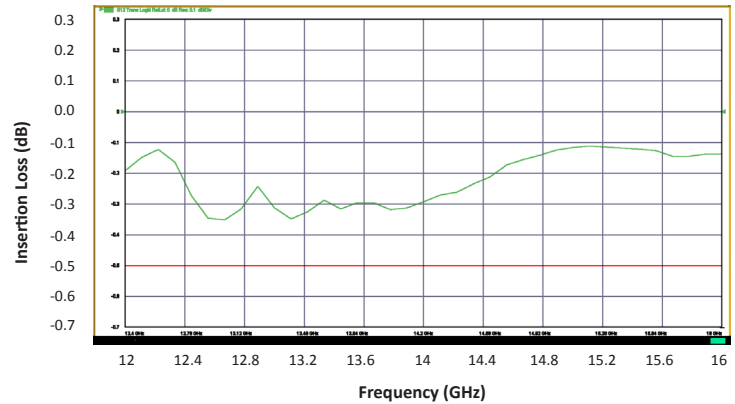
Insertion Loss (4-8 GHz)



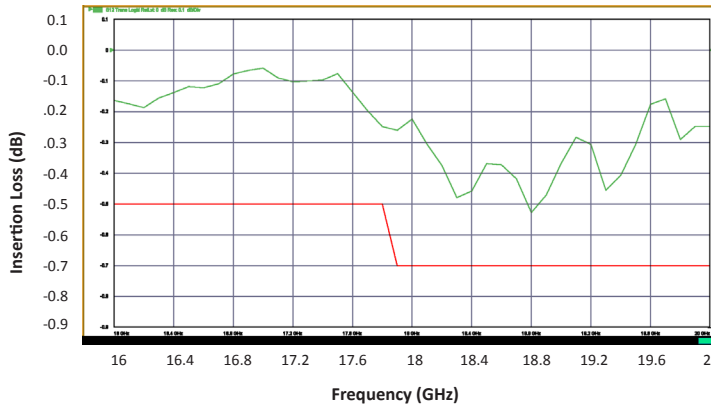
Insertion Loss (8-12 GHz)



Insertion Loss (12-16 GHz)



Insertion Loss (16-20 GHz)

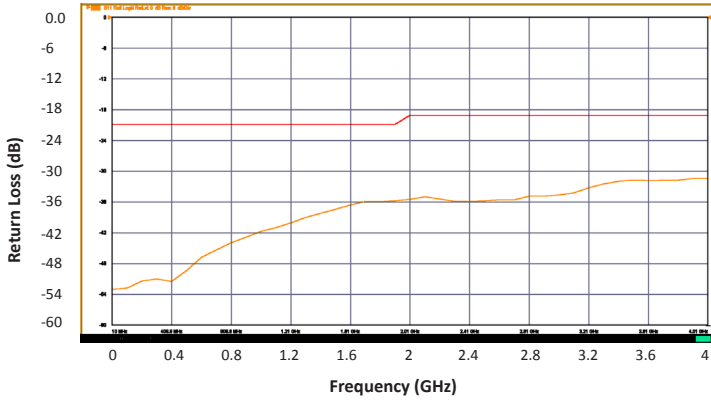


— TYPICAL  
 — MAXIMUM TEST LIMIT

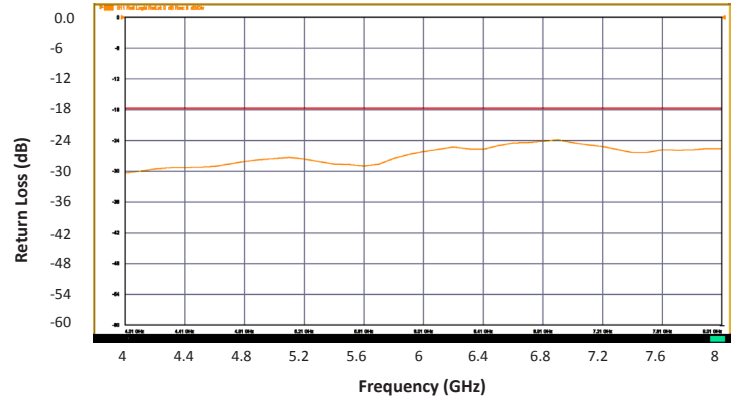
# SPDT - B3 Series

## TYPICAL NARROWBAND RETURN LOSS PERFORMANCE CURVES

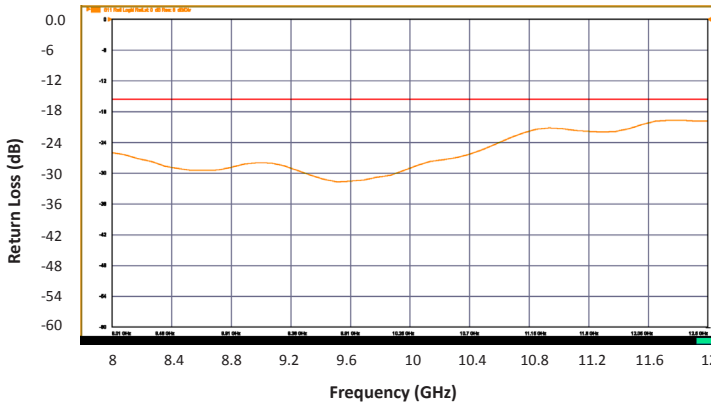
Return Loss (DC-4 GHz)



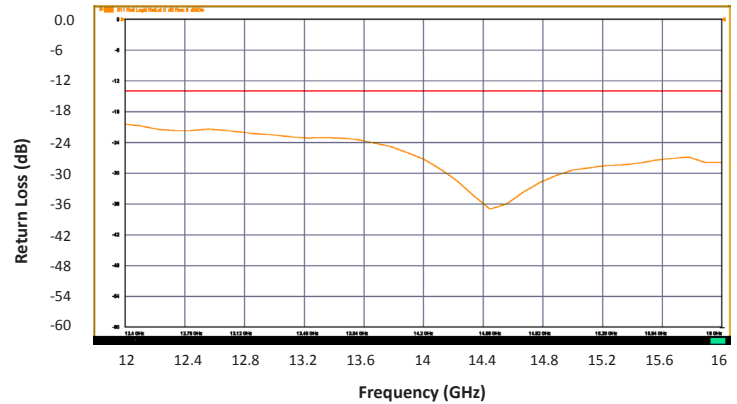
Return Loss (4-8 GHz)



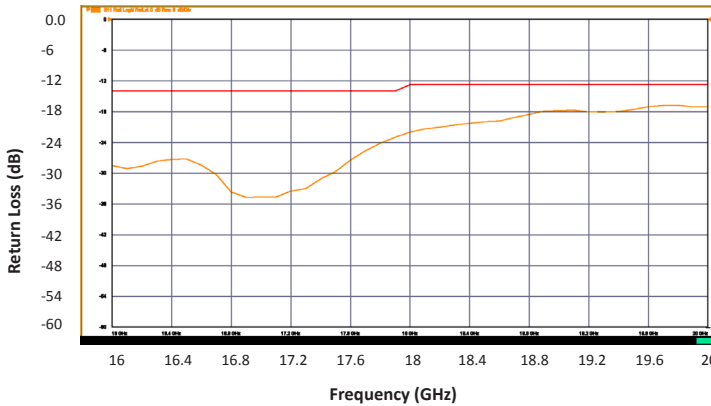
Return Loss (8-12 GHz)



Return Loss (12-16 GHz)



Return Loss (16-20 GHz)

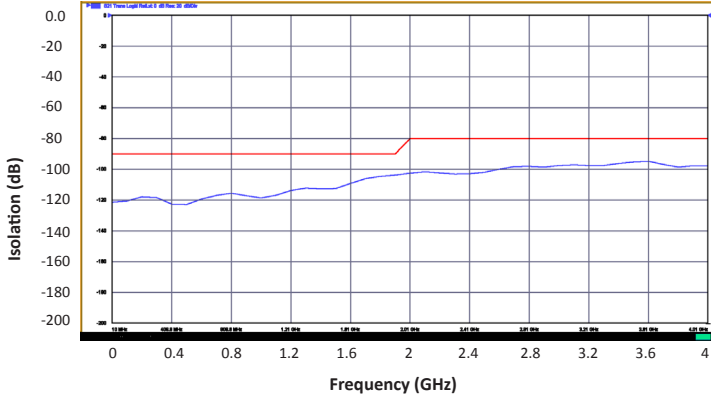


— TYPICAL  
 — MAXIMUM TEST LIMIT

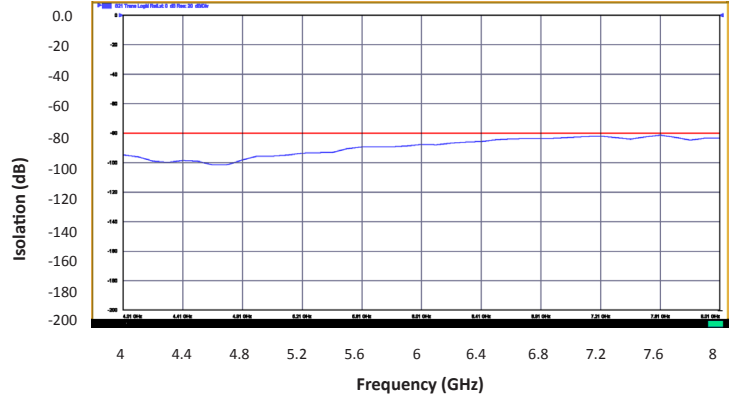
# SPDT - B3 Series

## TYPICAL NARROWBAND ISOLATION PERFORMANCE CURVES

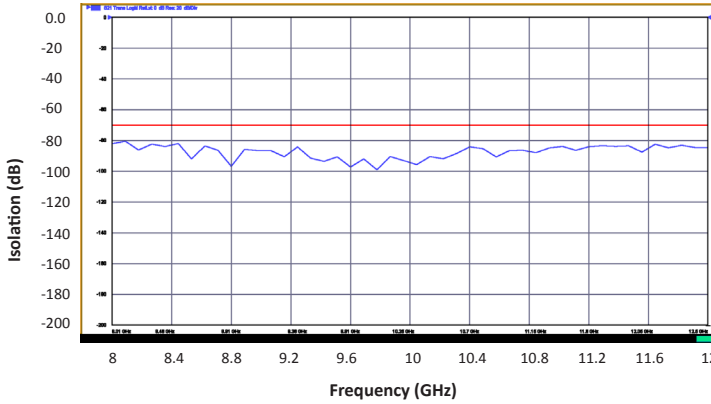
Isolation (DC-4 GHz)



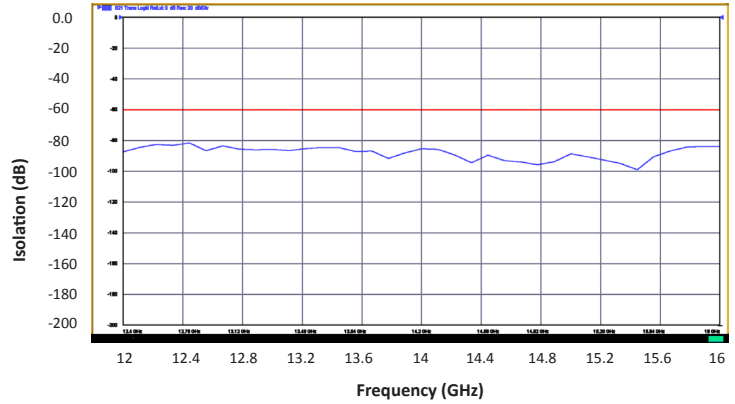
Isolation (4-8 GHz)



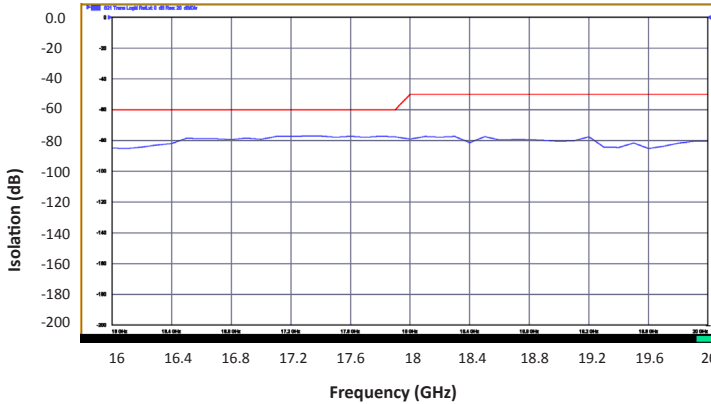
Isolation (8-12 GHz)



Isolation (12-16 GHz)



Isolation (16-20 GHz)



— TYPICAL  
 — MAXIMUM TEST LIMIT