

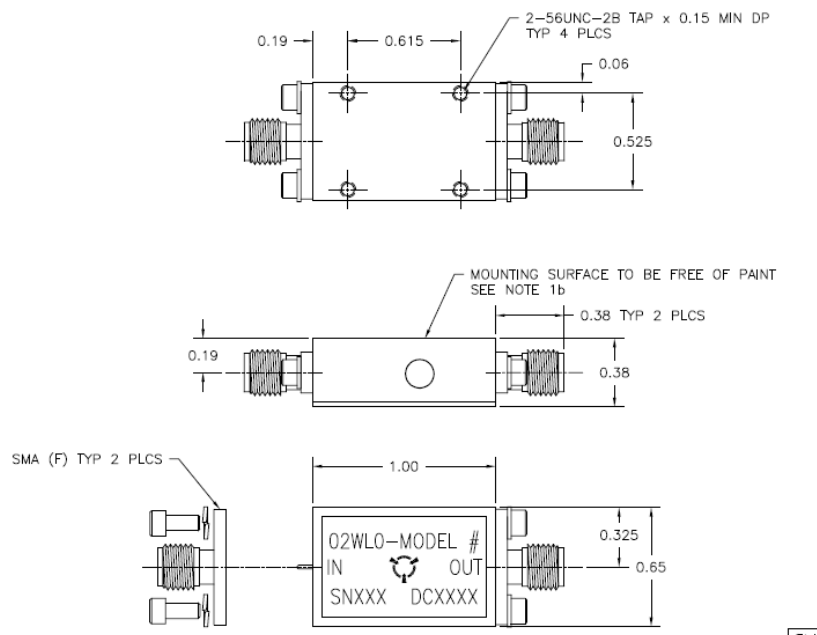
	Cage Code:	Title:	Date:	Rev:	Model No.
	02WLO	PRODUCT DATA (Subject to change)	2/20/03	N/A	HL3-236

This document describes the performance of a high power limiter. This limiter is passive i.e.; no externally applied bias voltage or control signal is required. Limiters are not reciprocal devices. Please be sure that high power is applied at the input port only and that it is properly heat sunk.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		4.0	18	GHz	
1.2	PEAK POWER			100	WATTS	
1.3	PULSE WIDTH			50	μS	
1.4	DUTY			25	%	
1.5	AVG. POWER			25	WATTS	
2.0	POWER SPECIFICATIONS	GUARD BAND				NOT USED
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>18	GHz	
3.2	PEAK POWER			0.1	WATTS	
3.3	PULSE WIDTH			CW	μS	
3.4	DUTY			100	%	
3.5	AVG. POWER			0.1	WATTS	
4	OPERATING FREQUENCY		4.5	18	GHz	
5	INSERTION LOSS					
5.1	INSERTION LOSS			1.7	dB	
5.2	1.0 dB COMPRESSION		8		dBm	
6	FLAT LEAKAGE					
6.1				18	dBm	
7	SPIKE					
7.1	SPIKE			27	dBm	Max value. Will vary with rise time of threat pulse
7.2	SPIKE ENERGY			0.5	erg	
8	RECOVERY TIME					
8.1				5.0	μS	
9	VSWR					
9.1				1.7:1		
10	CONNECTORS					SMA FEMALE

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
11	MECHANICAL					
11.1	WEIGHT			1.5	Oz.	
11.2	OUTLINE					SEE DWG 3416
12	ENVIRONMENTAL					
12.1	OPERATING TEMPERATURE		-0	+71	°C	
12.2	STORAGE TEMPERATURE		-55	+85	°C	
12.3	VIBRATION LEVEL					GROUND TRANSPORT
12.4	ALTITUDE			10,000	Ft	
13	SCREENING					SCREEN PER QP-121 LEVEL 3



2-56UNC-2B TAP x 0.15 MIN DP
TYP 4 PLCS

0.19 0.615 0.06 0.525

MOUNTING SURFACE TO BE FREE OF PAINT
SEE NOTE 1b

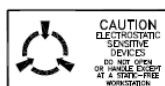
0.19 0.38 TYP 2 PLCS 0.38

SMA (F) TYP 2 PLCS

1.00 0.325 0.65

02WLO-MODEL #
IN OUT
SNXXX DCXXXX

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE DRN #1394	8/21/01	JCH



CAUTION
ELECTROSTATIC
SENSITIVE
DEVICES
DO NOT OPEN
OR HANDLE EXCEPT
AT A STATIC-FREE
WORKSTATION

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APPROVALS		DATE
DESIGNED BY DC BARKER	CHECKED BY JC HILL	8/15/01
ENGINEER JC HILL	MANUFACTURING JA WARD	8/21/01
QC JC HILL	CUSTOMER APPROVALS	8/21/01

NOTES:

- FINISH: MATTE BLACK EPOXY PAINT PER FED-STD-595 AND MIL-STD-22750.
- MOUNTING SURFACE SHALL BE CHEMICAL FILM PER MIL-C-5541
- MARKING:
 - MARK PER HILL MEI-147
 - MARKING: 0.08" HIGH BLACK CHARACTERS.
 - LABEL: METALIZED POLYESTER SHEET P/N 127-0010.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		DRAWING TITLE OUTLINE LIMITER	
FRACTIONS 8/1764	DECIMALS 0.0001	ANGLES 10/30	SURFACE BY
REMOVE ALL BURRS FROM PARTS		DRAWING NO. 03H03416-01	
MATERIAL: GENERAL		SIZE B	CAGE CODE 02WLO
FINISH: SEE NOTE 1		DRAWING NO. 03H03416-01	REV A
NEXT ASSY USED ON	APPLICATIONS DO NOT SCALE DRAWING	SCALE 2/1	FILENAME 03H03416-01a