

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (Subject to change)	9/30/02	N/A	HL4-037

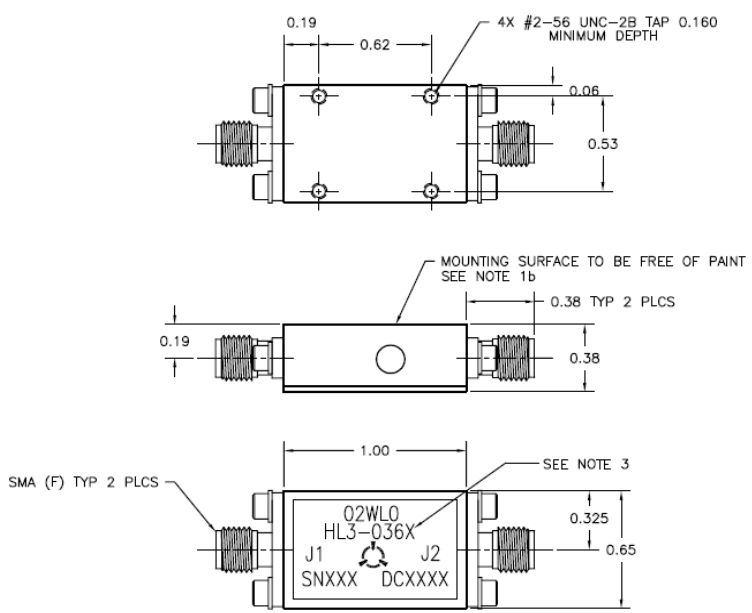
**This document describes the performance of a medium power limiter. This limiter is passive, i.e., no externally applied bias voltage or control signal is required.**

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY	BAND 1	9.0	9.6	GHz	
1.1.1		BAND 2	16.0	17.0	GHz	
1.2	PEAK POWER			10	WATTS	
1.3	RF PULSE WIDTH			150	μs	
1.4	DUTY			50	%	
1.5	AVE POWER			5	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY	9.6 TO 10.5 AND	17.0	18.0	GHz	
2.2	PEAK POWER			1	WATTS	
2.3	PULSE WIDTH				CW	
2.4	DUTY				CW	
2.5	CW POWER			1	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>18	GHz	
3.2	PEAK POWER			0.01	WATTS	
3.3	PULSE WIDTH			1	uS	
3.4	DUTY			1	%	
3.5	CW POWER			0.01	WATTS	
4	OPERATING FREQUENCY	9.0 TO 9.6 AND	16.0	17.0	GHz	
5	INSERTION LOSS	BAND 1		1.5	dB	
		BAND 2		2.0	dB	
6	FLAT LEAKAGE			50	milliwatts	
7	PHASE					
7.1	MATCHING/TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT			1.60:1		
8.2	OUTPUT			1.60:1		
9	reserved					

Federal Cage Code 02WLO

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
10	RECOVERY TIME	(3dB) @ 10 W pk		2	uS	
		(3dB) @ 100W pk		5	uS	
11	DC POWER					NOT REQUIRED
12	CONNECTORS					
12.1	RF					SMA FEMALE, 0.020 pins
13	MECHANICAL					
13.1	WEIGHT			5	OZ	
13.2	OUTLINE					SEE DWG 2942
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-20	+70	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



0.19 0.62 4X #2-56 UNC-2B TAP 0.160 MINIMUM DEPTH

0.06 0.53

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 SEE NOTE 3


0.325 0.65


02WLO  
HL3-036X  
J1 J2  
SNXXX DCXXXX

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISE PER ECN #1919	3/2/01	JCH
D	UPDATE PER ECN #4459	11/28/07	SPL
E	REVISE PER ECN #4645	1/23/08	SPL

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.
- X DENOTES CUSTOMER REVISION BUILD.



	<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE TO 0.001 SURFACE FINISH SEE NOTE 1 REMOVE ALL BARRIERS FROM PARTS</small>	<small>APPROVALS</small> <small>DESIGNED BY</small> DG BARKER <small>DATE</small> 2/26/99 <small>CHECKED BY</small> <small>DESIGNED BY</small> JC HILL <small>DATE</small> 3/22/99 <small>MANUFACTURED BY</small> JA WARD <small>DATE</small> 3/22/99 <small>QC</small> K RINGDAM <small>DATE</small> 3/22/99 <small>CUSTOMER APPROVALS</small>	 <b>OUTLINE LIMITER</b>																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: center;">HL3-036</td> </tr> <tr> <td style="text-align: center;">NEXT ASSY</td> <td style="text-align: center;">USED ON</td> </tr> <tr> <td style="text-align: center;">APPLICATIONS</td> <td style="text-align: center;">DO NOT SCALE DRAWING</td> </tr> </table>		HL3-036	NEXT ASSY	USED ON	APPLICATIONS	DO NOT SCALE DRAWING	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">DRAWING TITLE</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td style="text-align: center;">REV</td> <td style="text-align: center;">DATE</td> <td style="text-align: center;">DRAWING NO.</td> <td style="text-align: center;">REV</td> <td style="text-align: center;">REV</td> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">02WLO</td> <td style="text-align: center;">2942</td> <td style="text-align: center;">E</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">SCALE</td> <td style="text-align: center;">2/1</td> <td style="text-align: center;">REVISED</td> <td style="text-align: center;">2942e</td> <td style="text-align: center;">SHEET 1 OF 1</td> </tr> </table>		DRAWING TITLE				REV	DATE	DRAWING NO.	REV	REV	B	02WLO	2942	E	E	SCALE	2/1	REVISED	2942e	SHEET 1 OF 1
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