

Horne	et IPG		
Hermeticity Testing Pr	otocol		
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1 Purpose

This protocol prescribes methods and records results necessary to verify hermetic capabilities for the 3025 Hornet IPG. This protocol is based on MIL standards with reference to specific methods established at Med-Ally. This protocol is intended to be edited to meet the needs of each project at the time of execution without requiring revision of the template.

2 Scope

This document specifies device leak rate requirements, methods to establish gross leak time limits, methods for verification testing, and forms to record testing results.

3 References

Document No.	Title	
MIL-STD 883K	TEST METHOD STANDARD MICROCIRCUITS	
MIL-STD 750- 1A-CHG-2 ENVIRONMENTAL TEST METHODS FOR SEMICONDUCTOR DEVICES		

4 Appendices

Appendix:	Title
Α	Visual Inspection
В	Leak Test Results
С	Additional Notes Area (if required)

5 **Definitions**

Abbreviation or Term	Definition
DVT	Design Verification Test
CHLD	Cumulative Helium Leak Detector
IPG	Implantable Pulse Generator

6 Testing Protocol

6.1 Hermeticity requirements:

	Но	rnet IPG	
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cm ³ /s with 6.2 Approvals	es than or equal to 6.7x10 ⁻⁹ atm cm³/s 100% helium) : oval to Execute Testing:	with 25% Helium, 75% a	argon (1.0x10 ⁻⁹ atm
Signature:		Date:	
6.3 Equipmen		Bato	
	ak Detector:		
	st Calibration:		
6.3.2 Tes	st Chamber:		
6.3.3 Mid	croscope:		
	ner Equipment (if required):		
— — 6.4 Sample N u	ımber:		
6.5 Requireme	ents Drawing Number:		
6.6 Sample Ge	eneration		
	scribe the origin of the samples used. ny deviations, if applicable, that may in		

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6.7 Pr	Initia	il: Date Inspection	e:	
6.7.1	Com	npete visual inspection of the we cord results in the table in Appe	eld or hermetic assembly area	as per the assembly
		Initial	Date	
6.8 Te	sting:			
6.8.1	Perf	orm equipment setup and startu	p procedures per the equipm	ent work instruction:
	Wor	k Instruction:		
	Initia	ıl·	Date:	

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6.8.2 to ens	Place the Leak Te sure accurate readin	est Chamber into the testing port and "z igs.	zero" or recalibrate the chamber
	g. Repeat for all dev	Date: mplete, place the first device into the ch rices in the sample set. Complete the ta d after the specified testing time.	
	Initial	Date	

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Approvals	
7.1 Verify tes	sting results meet drawing requirements
Initial	Date
7.2 Quality A	Approval
7.2.1 R	eview Protocol
7.2.2 R	eview Appendix A: Visual Inspection
7.2.3 R	eview Appendix B: Leak Testing Results
7.2.4 R	eview Appendix C: Additional Notes (if applicable)
Signature:	Date:
7.3 Other Ap	pproval (If required):
7.4 Notes (if	required):
	
	

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Annandiy A: Vigual Inspection

ample #	Pass/Fail	Comments
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Appendix B: Leak Testing Results

Sample #	Leak Rate	Pass/Fail	Comments
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Appendix C: Additional Notes (if required). Notes may be typed or hand written:

Signature:	_ Date:	Page	_ of