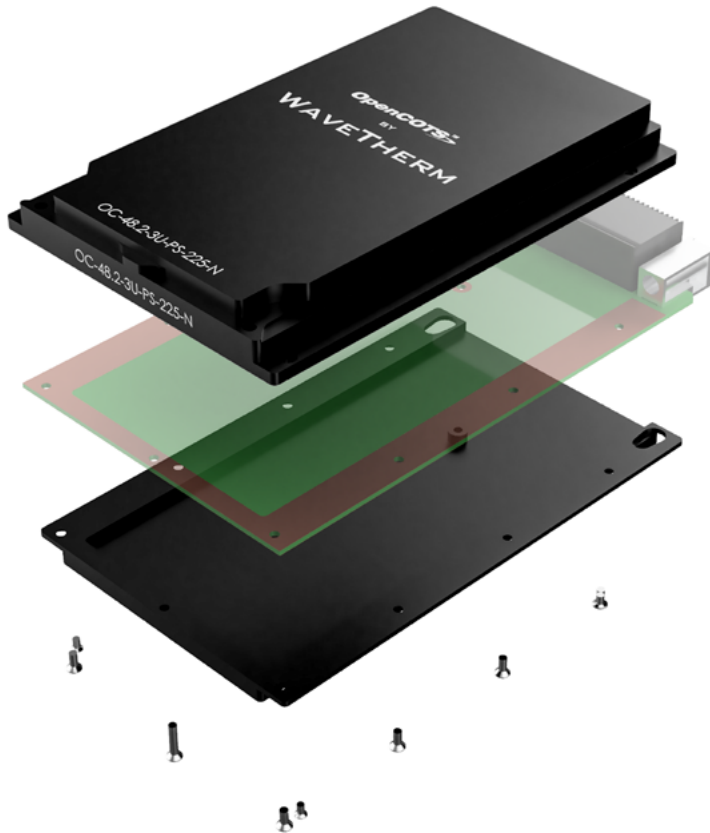


OpenCOTS is a line of standard mechanical and thermal products built for VPX and cPCI systems, aimed at cutting development time and getting your product to market faster. The OpenCOTS Standard Frame works for early prototypes or as a reliable baseline for custom module designs. Paired with our Wedgelocks and Ejectors, they deliver a high-performance thermo-mechanical platform with far less engineering effort, lower fabrication costs, and a shorter path to a finished product.



INCLUDES

Host Heat Frame
Host Rear Cover
Assembly Screws
SOLIDWEDGE™ Mounting Screws

MATERIALS

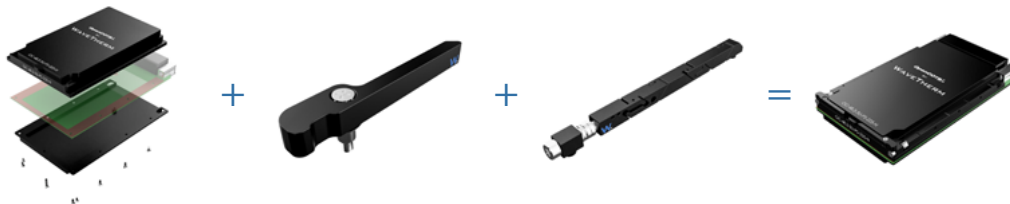
Heat Frame and Covers
Aluminum 6061-T6

FEATURES

Complies to VPX Standards
Customizable Heat Frames
Innovative XMC/PMC Heat Frames



ONLY SOLD WITH SOLIDWEDGE™ AND WAVETHERM EJECTORS
FOR COMPLETE KIT



CONFIGURE A KIT

PART NUMBER BUILDER

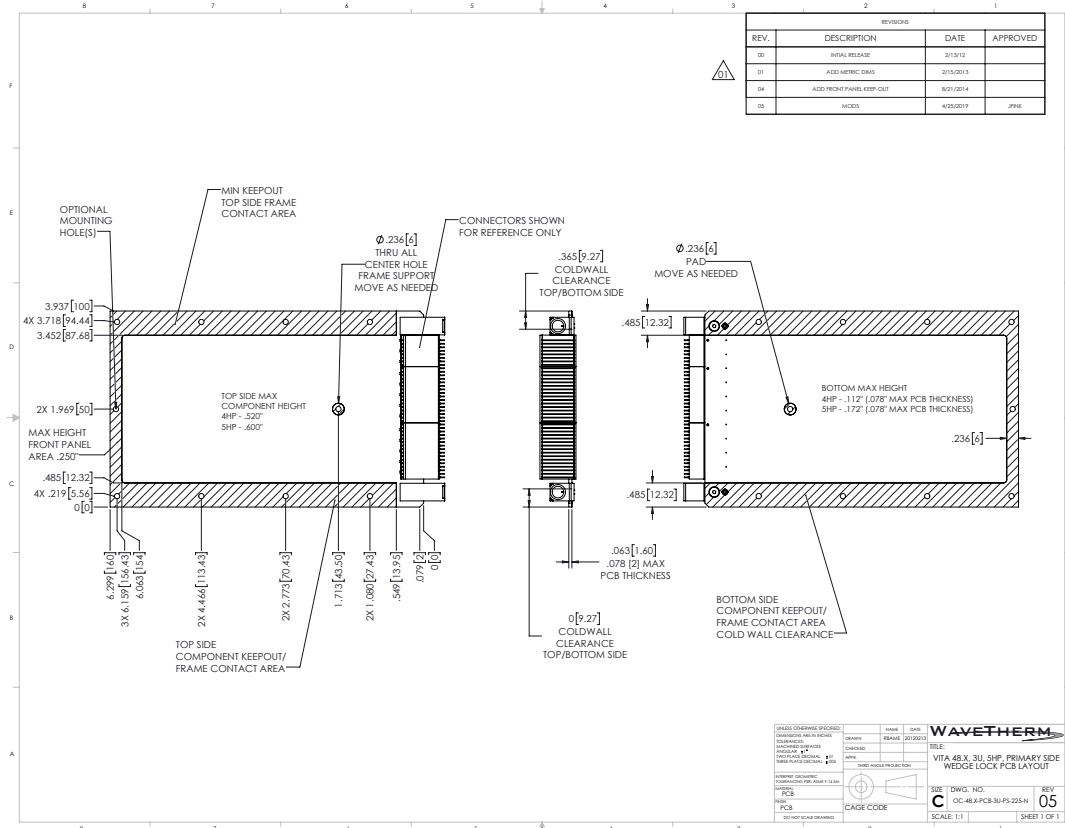
Required					Additional	
OC	-48.2-	3U	-PS-	225-	N	-Y
Family OPENCOTS	Vita 48.2	Width 3U 6U	Orientation	Wedgeloek Width	Mezzanine	Add'l
PRIMARY SIDE (160MM) [PS] SECONDARY SIDE (160MM) [SS] PASS THROUGH (160MM) [PT] PRIMARY SIDE (100MM) [100PS] SECONDARY SIDE (100MM) [100SS]			[T] - THICK PCB (NOMINAL > 0.063") [N] - NO MEZZANINE [FMC] - FPGA MEZZANINE CARD [PMC] - PMC/XMC MEZZANINE CARD [PERIM] - PERIMETER FRAME			

Note: Options are not available in all configurations.
Use the OpenCOTS Builder for available configurations and more information

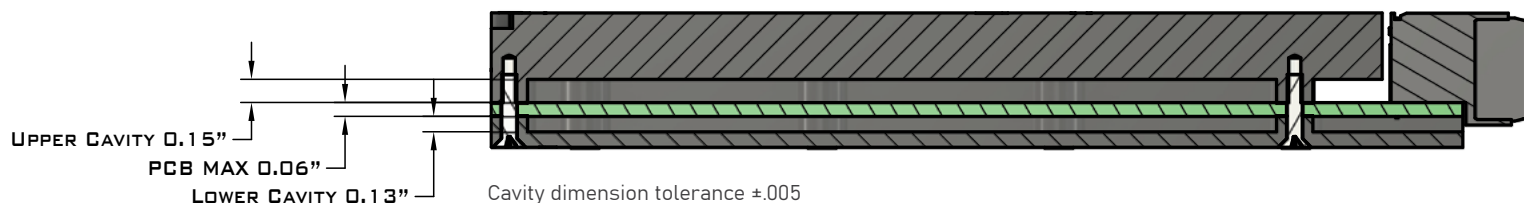
0.225" WIDTH - [225]
0.250" WIDTH - [250]
0.300" WIDTH - [300]

OC-48.2-3U-PS-225-N PCB LAYOUT

Available for download as PDF and DXF via product page



STANDARD FRAME



SELECTING GAP PADS

WHEN TO USE GAP PADS

Use gap pads or components with higher heat dissipation, typically those dissipating around 2 W per in² or more, to ensure proper thermal contact between the component and the heatframe. Gap pads may not be needed for early prototype applications.

DETERMINING GAP PAD THICKNESS AND SKYLINE HEIGHT

The gap between the top of each thermal component and the heatframe surface varies due to component package height tolerances. Gap pads should be selected so that their compression range accommodates the full range of possible gap dimensions. This deflection capability also allows a single gap pad to interface with multiple nearby components that have slightly different mounted heights.

MORE INFO

For more in-depth information on gap pads, view the [OpenCOTS Design Guide](#)

WAVE THERM RECOMMENDED GAP PADS

Gap Pad	Thickness	Deflection Range	Typical Gap	Min Gap	Max Gap	Thermal Conductivity
Bergquist GPHC5000 0.04"	1.02mm	10-40%	0.77mm	0.61mm	0.92mm	5.0 W/m·K
Bergquist GPHC5000 0.06"	1.52mm	10-40%	1.14mm	0.91mm	1.37mm	5.0 W/m·K
Bergquist GPHC5000 0.08"	2.03mm	10-40%	1.52mm	1.22mm	1.82mm	5.0 W/m·K
Tflex 640	1.02mm	10-60%	0.66mm	0.41mm	0.91mm	3.0 W/m·K
T-Global TG-A1250	1.52mm	10-60%	0.98mm	0.61mm	1.36mm	12.5 W/m·K
Tflex HR6.5 0.06"	1.52mm	10-59%	1.00mm	0.63mm	1.36mm	6.2 W/m·K

*WaveTherm does not sell gap pads or distribute them with standard frames

HEATFRAME ASSEMBLY

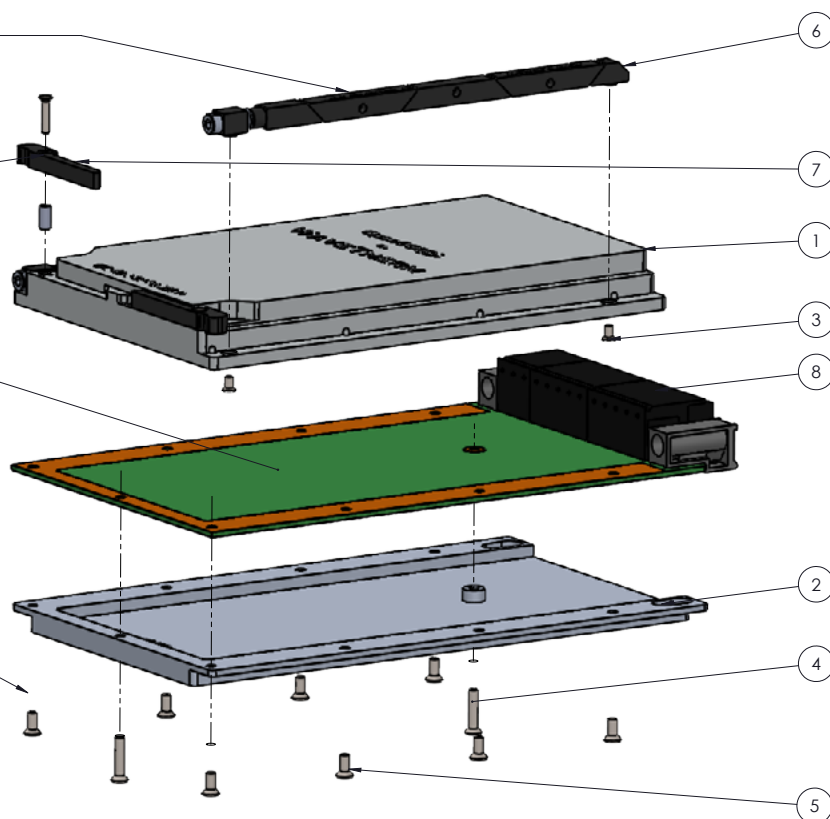
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	35796	HEATFRAME	1
2	35797	LOWER COVER	1
3	FH100-#2-56x0.156-SS	SOLIDWEDGE MOUNTING SCREWS	4
4	FH-M2.5x12-SS	CENTER ASSEMBLY SCREW	2
5	FH-M2.5x6-SS	PHILLIPS FLAT HEAD SCREW	8
6	SOLIDWEDGE	CUSTOMER SELECTED SOLIDWEDGE	2 (Purchased Separately)
7	EJECTOR	CUSTOMER SELECTED EJECTOR	2 (Purchased Separately)
8	PCB	CUSTOMER DESIGNED PCB	1 (Customer Supplied)

1: INSTALL SOLIDWEDGE WEDGELOCKS
USE LOCTITE 2760
TORQUE TO 2 IN-LBS

2: INSTALL EJECTORS
ARRANGE MOUNTING HARDWARE AS SHOWN
USE LOCTITE 2760
TORQUE TO 0.5 IN-LBS

3: APPLY GAP PADS TO COMPONENTS IF NEEDED
FOLLOW MANUFACTURER RECOMMENDATIONS

4: INSTALL ASSEMBLY SCREWS
USE LOCTITE 242
TORQUE TO 2 IN-LBS



NOTE: FOR MORE DETAILED INSTALLATION AND OPERATION INFORMATION, REFER TO DATASHEETS OF INDIVIDUAL PRODUCTS