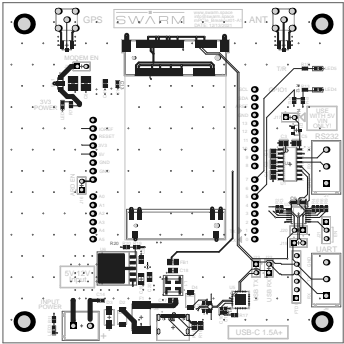


PART NUMBER	REVISION	FILE TYPE
mPCle_Breakout01	A1	SCHEMATIC
mPCle_Breakout01	A1	PCB BARE FAB
mPCle_Breakout01	XLS	BOM IN EXCEL

Top LayerAssembly Drawing

Assembly Top Part Placement



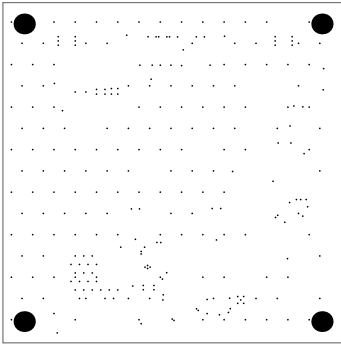
INTERPRET DRAWING		DRAWN BY/DATE		WWW.SWARM.SPACE	
PER ANSI Y32		Liam Gallagher 1/3/2021		SpaceX	
UNLESS OTHERWISE SPECIFIED		CHECKED BY/DATE		DRAWING TYPE:	
ALL DIMENSIONS IN INCHES.		MFG ENG/DATE		Assembly Drawing	
TOLERANCE XX ± .01		FNL APPROVAL/DATE		Title:	
XXX ± .005		FNL APPROVAL/DATE		mPCle_Breakout01	
ANGLE ± 1°		FNL APPROVAL/DATE		SIZE	
FRACTION ±1/64		PROD CTRL/FNL REL		DWG No.	
CONFIDENTIAL				mPCle_Breakout01	
THIS DOCUMENT IS THE CONFIDENTIAL PROPERTY OF				REV	
Swarm Technology AND IS NOT TO BE REPRODUCED,				A1	
USED OR DISCLOSED BY ANYONE WITHOUT THE EXPRESS				SCALE: 1:1	
WRITTEN PERMISSION OF THE Swarm Technology				SHEET: 1 OF 2	
COMPANY					

- NOTES:
- VENDOR TO PLACE LABEL WHICH CONTAINS THE ASSEMBLY NUMBER AND REV "mPCle_Breakout01 -A1" PLACE LABEL IN APPROXIMATE LOCATION SHOWN FONT AND LABEL SIZE AT VENDORS DISCRETION. LABEL MATERIAL TO BE UL RECOGNIZED
 - PCB ASSEMBLY MUST BE ROHS COMPLIANT
 - PCB TO HAVE NO CONFORMAL COATING
 - HATCHED AREAS INDICATE AREAS TO BE MASKED. NO CONFORMAL COAT SHOULD BE IN THESE AREAS.
"DO NOT COAT" AREA EXAMPLE
 - ALL DRAWING REQUIREMENTS SHALL BE AUDITED FOR COMPLIANCE ITEMS IDENTIFIED AS KEY< OR CRITICAL CHARACTERISTICS<O SHALL REQUIRE ADDITIONAL INSPECTION UNDER ONGOING LOT CONTROL PLAN.
 - OVERALL BOARD DIMENSIONS ARE FOR REFERENCE
 - BOM IS IN EXCEL FORMAT
 - PCB ASSEMBLY TO BE INSPECTED PER IPC-A-610 CLASS2 LATEST REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	NAME/DATE	APPD/DATE

REV A1
SH
mPCle_Breakout01

Inner Layer 1 Assembly Drawing

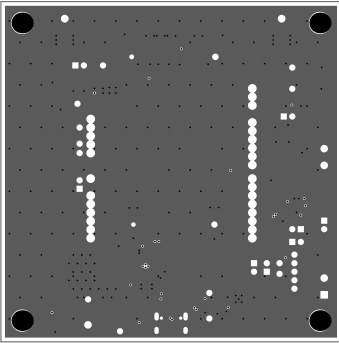


MATERIAL		DRAWN BY/DATE		WWW.SWARM.SPACE	
INTERPRET DRAWING PER ANSI Y32		Liam Gallagher 11/13/2021		Spacecraft	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES.		CHECKED BY/DATE		DRAWING TYPE:	
TOLERANCE	.XX ± .01 .XXX ± .005	MFG ENG/DATE		Title:	
ANGLE	± 1°	P/NL APPROVAL/DATE		mPCle_Breakout01	
FRACTION	± 1/64	P/NL APPROVAL/DATE		SIZE: DWG No.	
CONFIDENTIAL		PROD CTRL/P/NL REL		REV	
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REVISIONS				
ZONE	REV.	DESCRIPTION	NAME/DATE	APPD/DATE

REV A1
SH
mPCle_Breakout01

Inner Layer 3Assembly Drawing



MATERIAL		DRAWN BY/DATE		WWW.SWARM.SPACE	
INTERPRET DRAWING PER ANSI Y32		Liam Gallagher 11/13/2021		DRAWING TYPE:	
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TOLERANCE	.XX ± .01	MFG ENG/DATE		SIZE: DWG No.	
ANGLE	.XXX ± .005	PNL APPROVAL/DATE		REV	
FRACTION	± 1/64	PNL APPROVAL/DATE		SCALE: 1:1 SHEET: 1 OF 1	
CONFIDENTIAL		PROD CTRL/PNL REL		B	
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REVISIONS				
ZONE	REV.	DESCRIPTION	NAME/DATE	APPD/DATE

This is a revision to:				Assembly:			
1.	mPCle_Breakout01	• A1 27P	mPCle_Breakout01	ASSEMBLY CHANGE			
2.	mPCle_Breakout01	• A1 400P	mPCle_Breakout01	SETUP			
3.	mPCle_Breakout01	• A1 2LS	mPCle_Breakout01	EXCEL BOM			
4.	mPCle_Breakout01	• A1 25P	mPCle_Breakout01	SCHEMATIC			
5.	mPCle_Breakout01	• A1 2P	mPCle_Breakout01	ORDER PACKAGE			
				This and Revision 101 of mPCle_Breakout01			
				(Replaces Revision 101 of mPCle_Breakout01)			
6.	mPCle_Breakout01	• A1 400P	mPCle_Breakout01	ORDER PACKAGE			
7.	mPCle_Breakout01	• A1 400P	mPCle_Breakout01	ORDER PACKAGE			

mPCle_Breakout01

REV A1

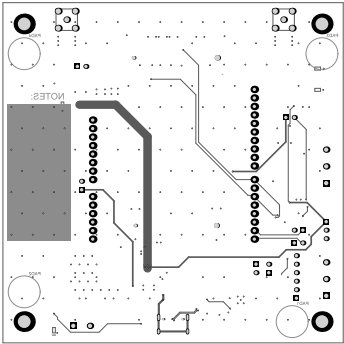
SH

ZONE	REV.	DESCRIPTION	REVISIONS	
			NAME/DATE	APP/DATE
---	---	SEE SHEET ONE FOR DETAILS	---	---

REV

mpCte_Breakout01

This is a machine file for			
mpCte_Breakout01	- A1 -	mpCte_Breakout01	Assembly
1. mpCte_Breakout01	- A1 - PDF	mpCte_Breakout01	ASSEMBLY DRAWING
2. mpCte_Breakout01	- A1 - BOM PDF	mpCte_Breakout01	BOM
3. mpCte_Breakout01	- A1 - BLS	mpCte_Breakout01	EXCEL BOM
4. mpCte_Breakout01	- A1 - PDF	mpCte_Breakout01	SCHEMATIC
5. mpCte_Breakout01	- A1 - ZIP	mpCte_Breakout01	GERBER PACKAGE Zip and Place AG and File. (Separate Release for this file included)
6. mpCte_Breakout01	- A1 - GERBER ZIP	mpCte_Breakout01	GERBER DATAPACK
7. mpCte_Breakout01	- A1 - RELEASE FILE	mpCte_Breakout01	PCB RELEASE FORM



Assembly Drawing

Bottom Layer Assembly Drawing

PART NUMBER	REVISION	FILE TYPE
mpCte_Breakout01	A1	SCHEMATIC
mpCte_Breakout01	A1	PCB BARE FAB
mpCte_Breakout01:K1:2	A1	BOM IN EXCEL

TITLE		DRAWN BY/DATE		CHECKED BY/DATE		MFG ENG/DATE		INT. APPROV./DATE		PROD. CLERK/INT. REF.	
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