

ロードマップ

RoadMap

MSAP RoadMap

Road map (4L product)			2022	2023	2024	2025
Tenting	Pattern	Pitch & L/S	65, 35/30 μ m	55, 25/30	←	←
	Bond Finger	Pitch & W/S	120, 90/30 μ m	90, 60/30 μ m	←	←
	Drill Hole	Pitch & Hole/Land	270, 100/230 μ m	←	245, 75/205 μ m	←
	Laser Via	Pitch & Via/Land	120, 45/80 μ m	←	95, 20/55	←
MSAP	Pattern	Pitch & L/S	60, 30/30 μ m	40, 20/20	←	30, 15/15
	Bond Finger	Pitch & W/S	70, 40/30 μ m	60, 40/20	←	30, 20/10
	Drill Hole	Pitch & Hole/Land	270, 100/230 μ m	260, 100/230	230, 75/200	220, 75/195
	Laser Via	Pitch & Via/Land	120, 45/80 μ m	110, 45/80	80, 20/50	65, 20/40
Core Thickness			30 μ m	←	←	f
Prepreg Thickness			17 μ m	←	13	10
Copper Thickness			10 μ m	←	7	5
Coreless		Availability	○	○	○	○
Solder Resist	Thickness		12 μ m	←	←	←
	Flatness		5 μ m	←	←	←
	SR Registration		12.5 μ m	←	10	←
	SRO Tolerance		10 μ m	←	←	←
	Process		Ink, DFSR	Ink, DFSR	Ink, DFSR	Ink, DFSR
Surface Treatment			Soft Au OSP (F2LX(PK))	←	Soft Au, ENEPIG OSP (F2LX(PK))	←
Front and back misalignment			35 μ m	←	30	←

SAP RoadMap

		FY2023			FY2024		FY2025		FY2026		
		HVM (1H2023)	HVM (2H2023)	Proto Type	HVM	Proto Type	HVM	Proto Type	HVM	Proto Type	
Max Build-up Layer Count		5	5	7	7	9	9	9+	9+	9+	
Max Via Stack		3	3	4	4	4+	4+	4+	4+	4+	
Trace (μ m)	BU L/S (SAP)	12/12	12/12	9/12	9/12	8/8	8/8	7/7	7/7	6/6	
	BU Trace Thickness	15	←	13	←	12	←	10	10	8	
	Core L/S (Subtractive)	50/50	←	←	←	45/45	45/45	←	←	40/40	
Via/Land (μ m)	BU	Via	φ60	←	←	φ50	φ50	←	←	φ45	
	Land	φ100	←	φ90	φ90	φ80	φ80	φ75	φ75	φ70	
PTH/Land (μ m)	Core Thickness	0.4 mm	φ150/φ250	←	φ105/φ200	φ105/φ200	←	←	←	←	
		0.8 mm	φ150/φ250	←	φ125/φ225	φ125/φ225	φ105/φ200	φ105/φ200	←	←	
		1.2 mm	φ200/φ300	←	φ150/φ250	φ150/φ250	←	←	←	←	
		1.4 mm	—	—	—	—	φ200/φ300	φ200/φ300	←	←	←
SR	Opening (μ m)	φ80	←	φ70	φ70	φ65	φ65	φ60	φ60	φ55	
	Cu Pad (μ m)	φ105	←	φ95	φ95	φ90	φ90	φ85	φ85	φ80	
SOP	Min Bump Pitch (μ m)	150	←	130	130	120	120	110	110	100	
Material	Core		E-700G(R)	←	E-705G	E-700G(R) E-705G	E-795G R-1515V	E-700G(R) E-705G E-795G R-1515V	TBD	E-700G(R) E-705G E-795G R-1515V	TBD
		BU (ABF)	GX92	←	GX-T31 GL102F	GX92 GX-T31 GL102F	GZ41 GL107	GX92 GX-T31 GL102F GZ41 GL107	TBD	GX92 GX-T31 GL102F GZ41 GL107	TBD
	SR	Liquid	SR7300G	←	SR7400A	SR7300G SR7400A	TBD	SR7300G SR7400A	TBD	SR7300G SR7400A	TBD
		Film	—	—	—	—	SR-FK SR1	SR-FK SR1	TBD	SR-FK SR1	TBD