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# Материалы ПП

<a href="https://absolutelectronica.ru/">https://absolutelectronica.ru/</a>	паста, флюс, инструменты, материалы для производства ПП
<a href="https://www.doosanelectronics.com/en#">https://www.doosanelectronics.com/en#</a>	Производитель материалов ПП

- HVLP copper roughness H-VLP ?
- HTE ?
- RTF ?
- TUC-933 (a.k.a T3), HVLP copper foil
- TUC-883 (a.k.a T2), HVLP copper foil
- Doosan DS-7409DV(N), HVLP copper foil
- Doosan DS-7409DV, HVLP copper foil

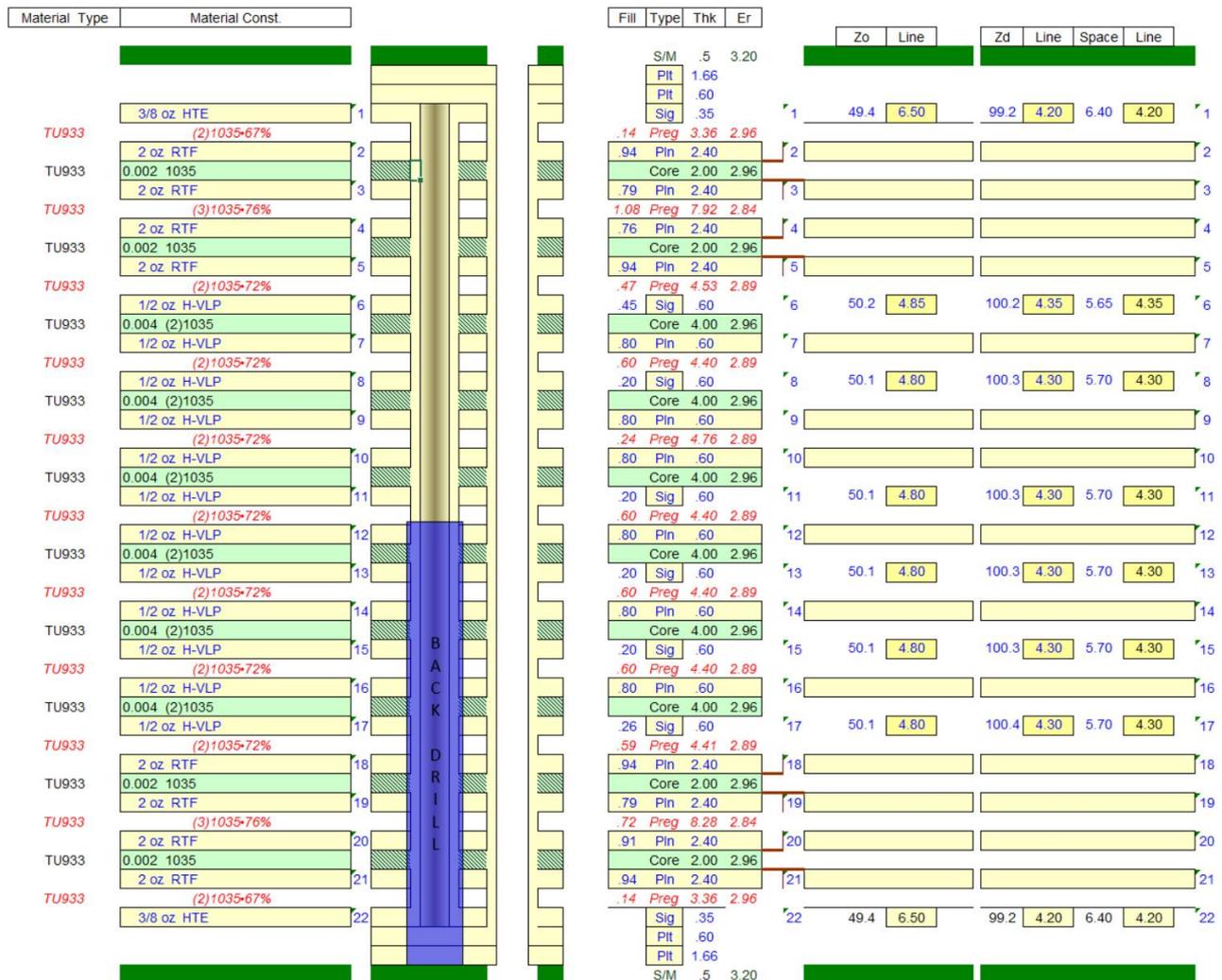


Figure 36: Wedge-100 TUC-933 PCB Stackup( Courtesy of ISU-Petasys)

Standard Loss	Mid-Loss	Low-Loss	Very Low-Loss	Ultra Low-Loss	High Frequency	Others
S1170	S1150G	S7439	Synamic 6	Megtron-7/-7NE	S7135	Embedded Capacitance
S1141/S1140F	S7045G	Megtron-4/M4S	Megtron-6/-6G	TU933/933+	S7136H	3M C-PLY
S1140F	S7038	Megtron-M	Megtron-6NE	EM891K	RO4350B	Dupont HK04J

Standard Loss	Mid-Loss	Low-Loss	Very Low-Loss	Ultra Low-Loss	High Frequency	Others
S1000H	S7040G	TU863/863+	TU-883	DS7409DV(N)	RO4003C	OKA-Mitsui
S1000-2/-2M	HE679G	TU872LK/SLK	I-TERA	IT968-SE	RO3003	Faradflex BC12M, BC24M
S1190	Megtron 2	TU-827SLK SP	Chronon LDK	LW910G	RO3006	Embedded Resistance
EM-285/-825	R1566W	FR408/-408HR	EM-888K	Tachyon-100G	RO4360G2	Ohmega-Ply
EM-827	TU862S	I-Speed	EM891	Synamic 6N	TC350	Asahi Tu-50/1000-08
TU662	TU862HF	N4000-13 Series	LW900G	MW4000	RF35	Hybrid
TU768	IT170GRA1	EM-888/-S	FL700	FL700LD	RF35A2	M6+S1000-2
IT158	IT-150GS	EM-828/828G	DS7409DV		RF60TC	M6+370HR/EM-827
IT180I/IT180A	EM370(D)	IT-150DA	MW2000/3000		RF60A	RO4350B+EM827/370HR
370HR	EM285	IT200LK	IT-968		TLY-5A	RO4360G2+EM827/370HR
E-679(W)	EM-355(D)	NPG-170D			Di clad880	TU-872SLK+TU-768
E-679F(J)	NPG-170N	HE-679G(S)			Cu clad6700	TU-872SLK+TU-862HF
R-1755V	NPG-150N					S7439+S1000-2/S1190
/R1755C	IS415					S7135+S1000-2
						TU872SLK+TU768/TU862HF
						S7136H+EM827/S1000-2M/S7045G

High Speed	Material	Comment	ds
TUC	TU-872 SLK(TU-87P SLK)	Low Dk/Df and High Thermal Reliability Material Core: TU-872 SLK; Prepreg: TU-87P SLK	<a href="#">link</a>
Panasonic	R-1755V		
Panasonic	R-1650V		
Panasonic	MC-100MS/EX		
Panasonic	MC-Rheopreg		
Doosan	7409SN		
Doosan	7408		
Isola	Tachyon 100G		
Isola	Terra Green		
Isola	I-tera MT40		
Isola	I-Speed		
Isola	FR408HR		
Isola	IS415		
Arlon	35N		
Arlon	85N		
Standart	Material	Comment	ds
Doosan	7402		
Isola	370HR		
Isola	IS620i		
Isola	FR408HR		
Isola	FR408		
Isola	IS410		
Isola	FR406		
Isola	P96		
Isola	185HR		

High Speed	Material	Comment	ds
<a href="#">Shengyi Technology Co, Ltd.</a>	S1000-2M	LEAD-FREE COMPATIBLE FR-4	<a href="#">link</a>
<a href="#">TUC</a>	TU-768(TU-768P)	High-Tg and High Thermal Reliability Laminate and Prepreg Core: TU-768; Prepreg: TU-768P	<a href="#">link</a>
Гибкие и гибко-жесткие	Material	Comment	ds
DuPont			
Expanex			
SDFlex			
3M			
Hanwha			
Теплонагруженные и на основе металла	Material	Comment	ds
CCAF			
Bergquist			
Laird			
Ventec			
ShenYi			
ITEQ			
Rogers			
ISOLA			
RF	Material	Comment	ds
Rogers	RO4350B		
Rogers	RO4003C		
Wang-Ling	F4BMX	(доступная замена Rogers и ФАФ-4Д)	
Taconic	TLX-9		
Taconic	RF-30A		
Taconic	RF-35		
Taconic	RF-60A		

## Megtron 6

[Panasonic Megtron 6](#)