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# Материалы ПП

| | |
|---|---|
| https://absolutelectronica.ru/ | паста, флюс, инструменты, материалы для производства ПП |
| https://www.doosanelectronics.com/en# | 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

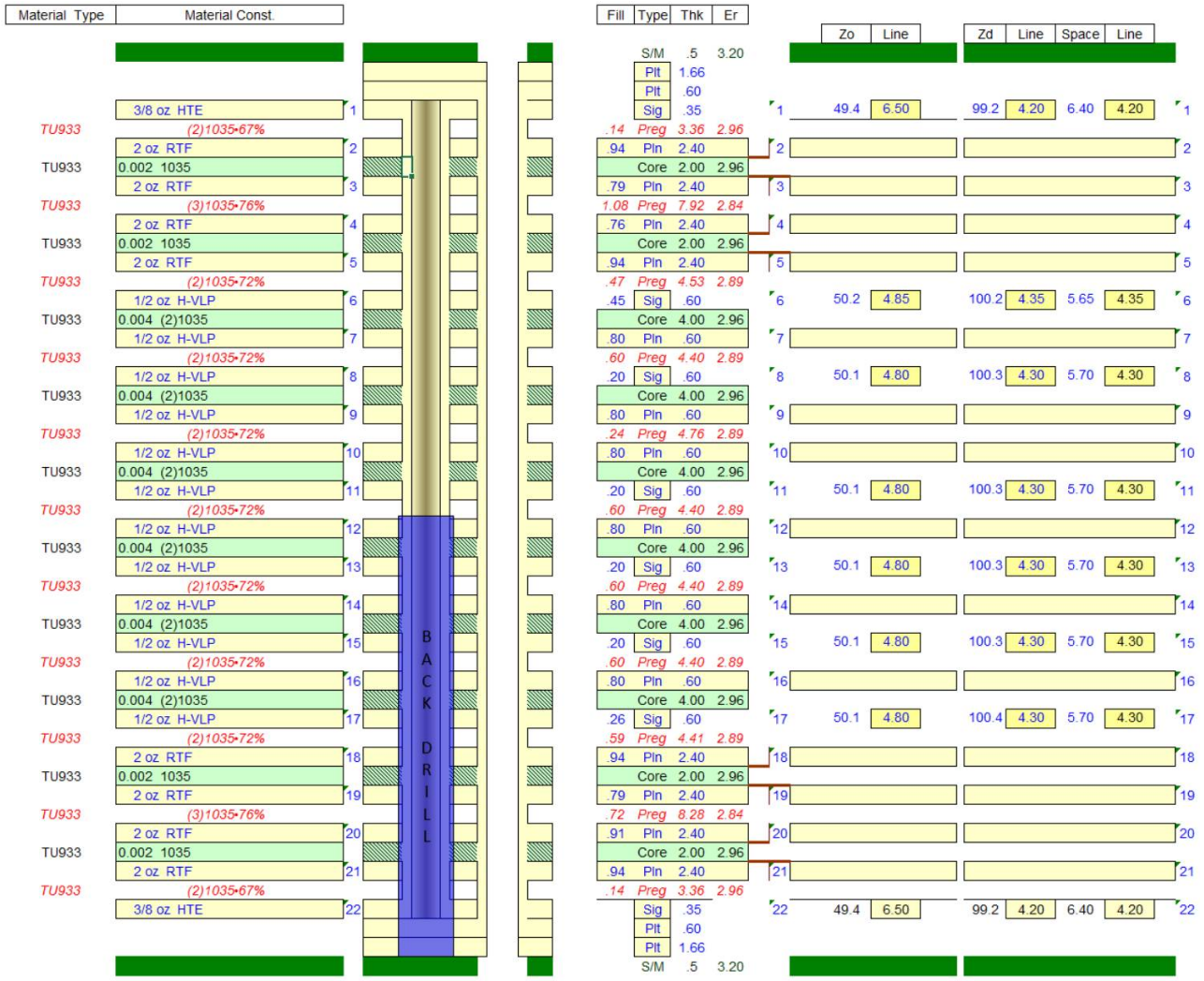


Figure 36: Wedge-100 TUC-933 PCB Stackup( Courtesy of ISU-Petasys)

| 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 |
| 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 |

| Standard Loss | Mid-Loss | Low-Loss | Very Low-Loss | Ultra Low-Loss | High Frequency | Others |
|---|---|---|---|---|---|---|
| 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 | | | Diclad880 | TU-872SLK+TU-768 |
| E-679F(J) | NPG-170N | HE-679G(S) | | | Cuclad6700 | 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<br>Core: TU-872 SLK;<br>Prepreg: TU-87P SLK | link |
| 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 | | |
| Shengyi Technology Co, Ltd. | S1000-2M | LEAD-FREE COMPATIBLE FR-4 | link |

| High Speed | Material | Comment | ds |
|---|---|---|---|
| TUC | TU-768(TU-768P) | High-Tg and High Thermal Reliability Laminate and Prepreg Core: TU-768; Prepreg: TU-768P | link |
| **Гибкие и гибко-жёсткие** | **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