

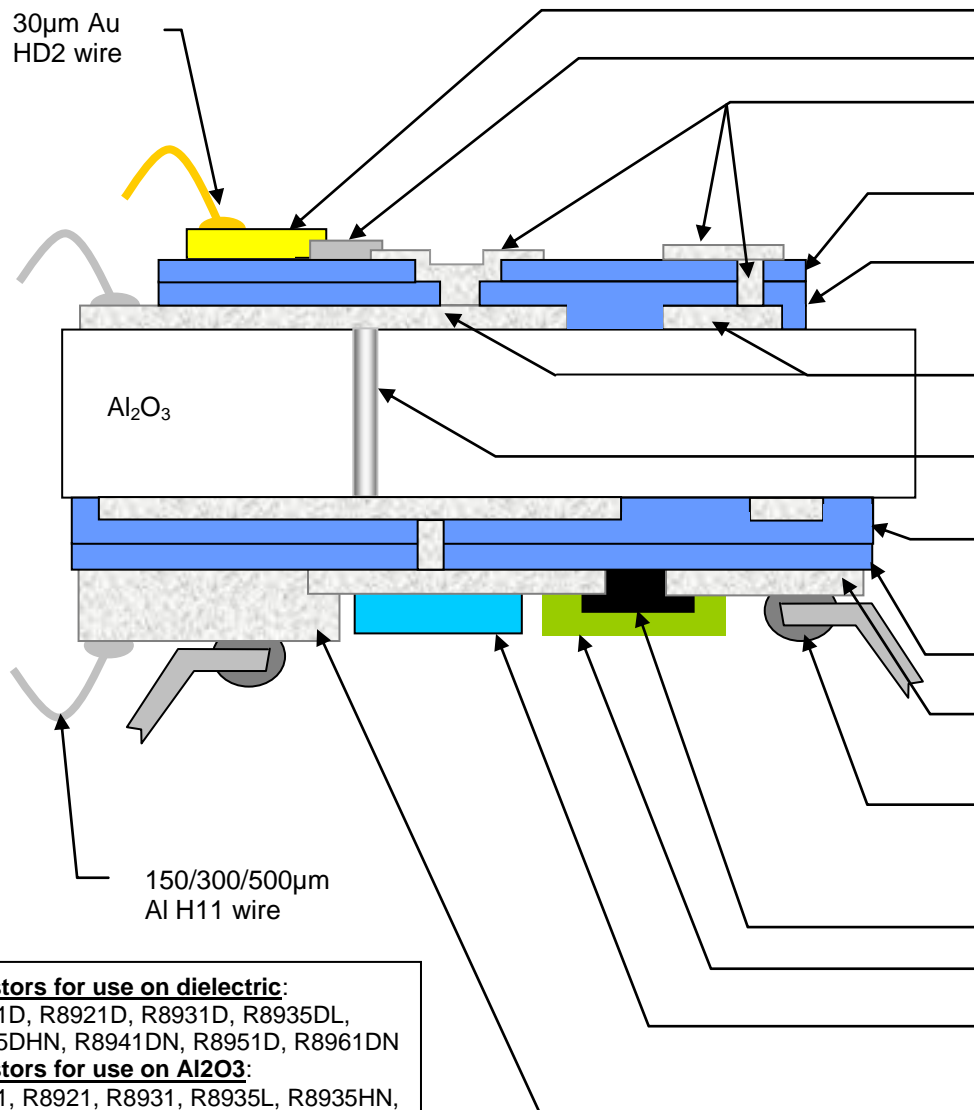
Hybrid System

Schematics and Details for Lead Free Hybrid Build-Up

Standard Hybrid Double Sided

Mixed Metal:

30µm Au
HD2 wire



- Au: C 5729 (Pb free)
- AgPd: C2180 (Pb free)
- AgPt: C 4729 (Pb free)
- Ag: C 8728 (Pb free)
- Dielectric: IP 9227 (Pb free)*
- Dielectric inner layer:
IP 9227 (Pb free)
or IP 9228 (Pb free) **
- AgPt: C 4729/C4727 (Pb free)
- Ag: C 8728 (Pb free)
- AgPt: C 4729 (Pb free)
- Ag: C 8728 (Pb free) ***
- Dielectric inner layer:
IP 9227 (Pb free)
or IP 9228 (Pb free) **
- Dielectric: IP 9227 (Pb free) *
- AgPt: C 4727/C4729 (Pb free)
- Ag: C 8728 (Pb free)
- SAC: F 645 (halide free, Pb free)
- ICA: PC 3000 series
(Ag conductive adhesive)
- R 8900D series (RoHS ✓)
- IP 9036 A (600°C) (Pb free)
- IP 9036 A, 600°C (Pb free)
(IP 9037, 850°C (Pb free))
- Ag: C 8717 B (Pb free)
Al Wire or Ribbon;
also solderable

150/300/500µm
Al H11 wire

Resistors for use on dielectric:

R8911D, R8921D, R8931D, R8935DL,
R8935DHN, R8941DN, R8951D, R8961DN

Resistors for use on Al₂O₃:

R8911, R8921, R8931, R8935L, R8935HN,
R8941N, R8951N, R8961N

* optimized for 2 layer build-up and stabilizes resistors when trimmed on dielectric

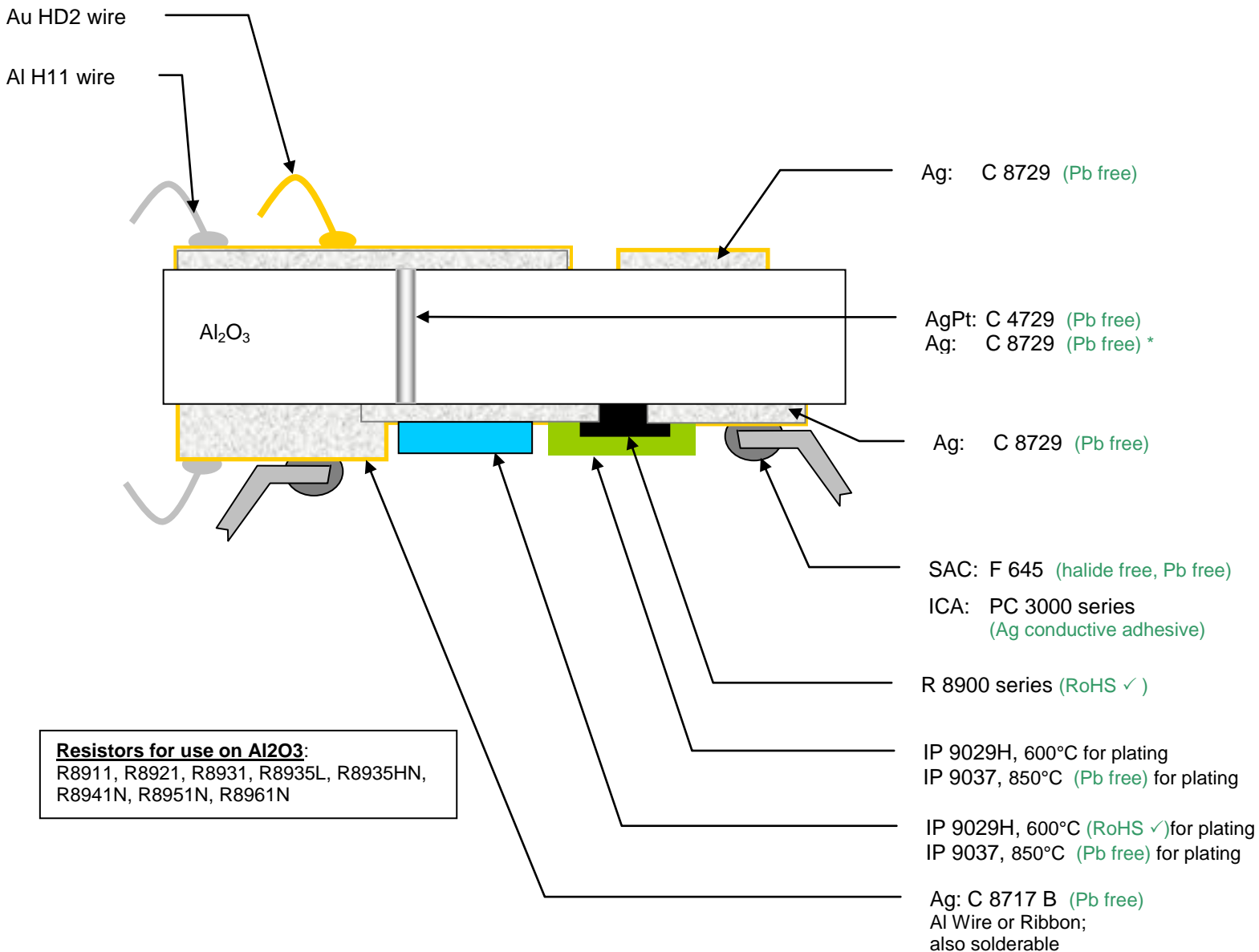
** IP9228 for increased BDV as inner layer only

*** Ag conductor for punched holes only; for laser drilled through holes the use of C4729 is recommended

Hybrid System

Schematics and Details for Lead Free Hybrid Build-Up

Double Sided Hybrid for Plating Application:

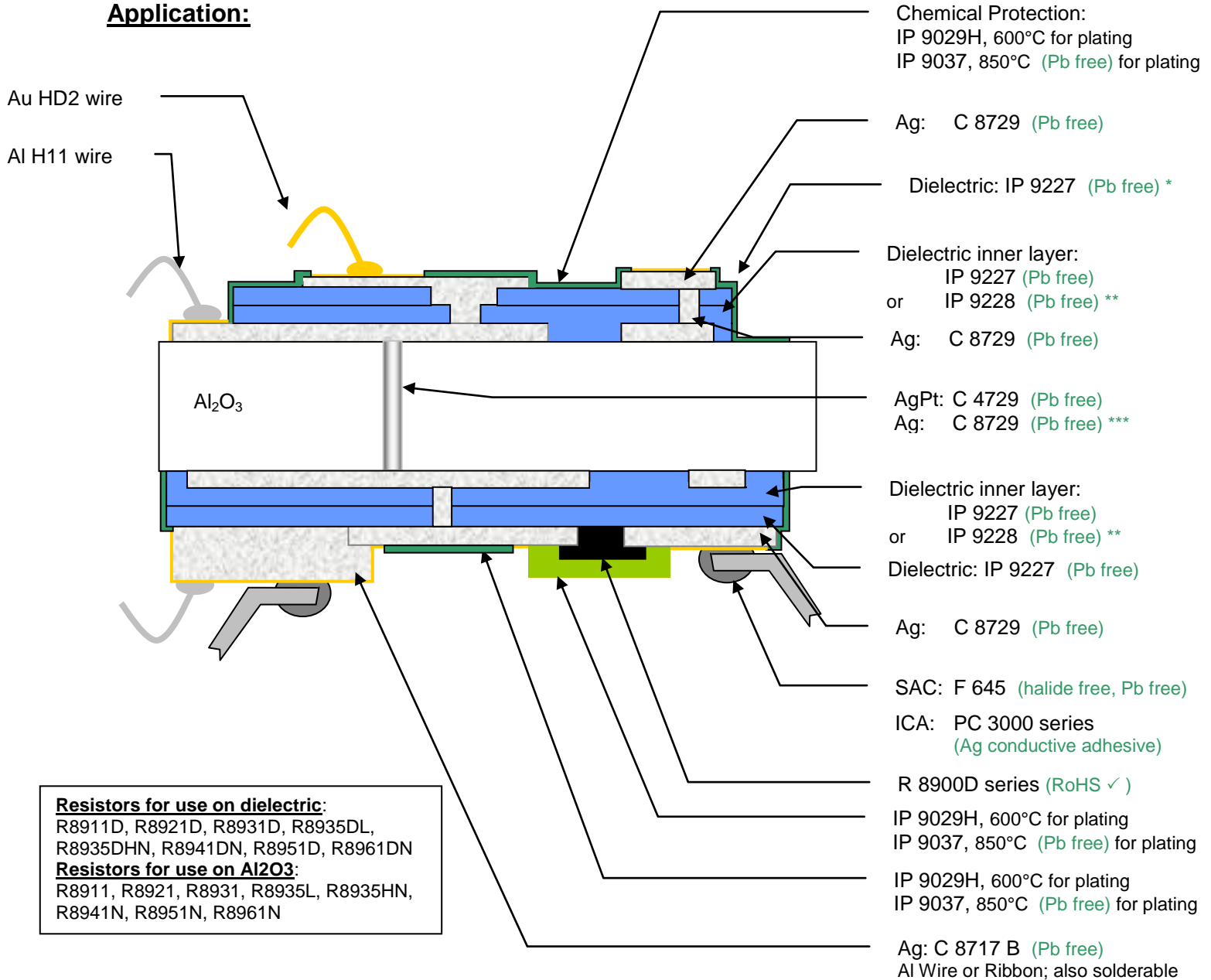


* Ag conductor for punched holes only; for laser drilled through holes the use of C4729 is recommended

Hybrid System

Schematics and Details for Lead Free Hybrid Build-Up

Double Sided Multilayer Hybrid for Plating Application:



* optimized for 2 layer build-up and stabilizes resistors when trimmed on dielectric

** IP9228 for increased BDV as inner layer only

*** Ag conductor for punched holes only; for laser drilled through holes the use of C4729 is recommended

