PROJECT REFERENCE: xilinx_virtex_vu37p_1

SCHEMATIC NUMBER: 1

SCHEMATIC REVISION: 1

SCHEMATIC DRAWN BY: 212460547

| | |
|---|---|
| TITLE: | XILINX VIRTEX EVAL BOARD |
| SUBTITLE: | XCVU37P |
| PROJECT: XILINX_VIRTEX_VU37P | TYPE: SD |
| : | ISS: |
| SHEET: OF: | REV: AM1 |
| LAST WRITTEN: Thu May 24 13:13:11 2018 | |

GE-ENERGY

PROPRIETARY -

VCCINT - TJT120

E200 VIN
E201 GND

TRIM_VCCINT — R200 1.37K — SIG_GND
R201 41.2K — ADDR0_VCCINT
R202 15.4K — ADDR1_VCCINT
R203 24K — RTUNE_VCCINT
ADDR = 16

E202 VIN — R204 OPEN
E203 — C239 0.0010UF
E204
E205 — R206 0 — PG_VCCINT
E206 — C245 0.0010UF
E207 — R207 0 — SYNC_VCCINT
E208 — C253 0.0010UF
R205 1K — ON/OFF_VCCINT
GND

| | | | |
|---|---|---|---|
| 10 NC HDR200 | 5 GND HDR200 | E211 VOUT | E212 GND |
| 9 NC HDR200 | 4 NC HDR200 | | |
| 8 NC HDR200 | 3 SMBALERT_VCCINT HDR200 | | |
| 7 NC HDR200 | 2 CLK_VCCINT HDR200 | | |
| 6 NC HDR200 | 1 DATA_VCCINT HDR200 | | |

STD200
J200
C288 0.1UF
C289 0.047UF
C202 0.1UF
C204 0.047UF
C206 330UF
C208 330UF
C210 330UF
C212 330UF
C214 22UF
C216 22UF
C218 22UF
C220 22UF
C222 22UF
C224 22UF
C226 22UF
C228 22UF
C230 22UF
C232 22UF
C234 22UF
C236 22UF

150041744
PM200

| | | | |
|---|---|---|---|
| VIN | 23, 25, 27, 29 | VIN | |
| ON/OFF_VCCINT | 32 | ON/OFF | |
| PG_VCCINT | 15 | PWR_GOOD | |
| SYNC_VCCINT | 14 | SYNC | |
| SMBALERT_VCCINT | 33 | PMBUS_ALERT | |
| CLK_VCCINT | 35 | PMBUS_CLK | |
| DATA_VCCINT | 34 | PMBUS_DATA | |
| VS+_VCCINT | 20 | VS+ | |
| VS-_VCCINT | 21 | VS- | |
| ADDR0_VCCINT | 36 | PMBUS_ADDR0 | |
| ADDR1_VCCINT | 37 | PMBUS_ADDR1 | |
| RTUNE_VCCINT | 16 | RVTUNE_AD | |
| TRIM_VCCINT | 17 | TRIM | |
| SEQ_VCCINT | 18 | TRACK | |
| | 30 | N/A | |
| | 31 | I_SHARE_BUS | |
| | 19 | AGND | |
| VOUT | 1, 2, 4, 5, 7, 8, 10, 11 | VOUT_VCCINT | |
| PGND | 3, 6, 9, 12, 13, 22, 24, 26, 28, 38 | | |

SIG_GND
GND

E210 — R209 0 — VS+_VCCINT — STD202
C248 0.1UF
C250 0.047UF
C252 47UF
C255 47UF
C257 47UF
C259 47UF
C261 47UF
C263 47UF
C265 47UF
C267 47UF
C269 47UF
C271 47UF
C273 47UF
C275 47UF
C277 47UF
C278 47UF
C280 47UF
C283 47UF
J201
R208 0 — VS-_VCCINT — E209 — STD203
STD201

VOUT_VCCINT

C200 4.7UF
C201 4.7UF
C203 4.7UF
C205 4.7UF
C207 4.7UF
C209 4.7UF
C211 4.7UF
C213 4.7UF
C215 4.7UF
C217 4.7UF
C219 4.7UF
C221 4.7UF
C223 4.7UF
C225 4.7UF
C227 4.7UF
C229 4.7UF
C231 4.7UF
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C251 470UF
C254 470UF
C256 680UF
C258 680UF
C260 680UF
C262 680UF
C264 680UF
C266 680UF
C268 680UF
C270 680UF
C272 680UF
C274 680UF
C276 680UF
C279 680UF
C281 680UF
C282 680UF
C284 680UF
GND

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|---|---|
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| SUBTITLE: | XCVU37P |
| PROJECT: | XILINX_VIRTEX_VU37P |
| TYPE: | SD |
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| SHEET: | OF: |
| REV: | AM1 |
| LAST WRITTEN: | Wed Oct 03 13:44:25 2018 |

GE-ENERGY
PROPRIETARY -

# VCCBRAM/IO - UJT035

E300 E301 — VIN GND

VIN — R300 OPEN — E302 — C304 0.0010UF — E303 — ON/OFF_VCCBRAM/IO — R301 1K — GND

E304 — R302 0 — E305 — C309 0.0010UF — E306 — PG_VCCBRAM/IO — GND

E307 — C310 0.0010UF — E308 — SYNC_VCCBRAM/IO — R303 0 — GND

TRIM_VCCBRAM/IO — R304 40.2K — SIG_GND

R305 18.7K — ADDR0_VCCBRAM/IO

R306 27.4K — ADDR1_VCCBRAM/IO

ADDR = 17

E309 — TRIM_VCCBRAM/IO — R307 300 — C320 8200PF — VS+_VCCBRAM/IO

E310 — C326 0.0010UF — E313 — R308 0 — SYNC_VCCBRAM/IO — GND

E314 — VOUT_VCCBRAM/IO

E315 — GND

E311 — VS+_VCCBRAM/IO — R309 0 — STD302

R310 0 — VS-_VCCBRAM/IO — E312 — STD303

J300

C331 0.1UF

C332 0.047UF — C300 0.1UF

C301 0.047UF — C302 22UF

C303 22UF — C305 22UF

C306 22UF — C307 22UF

C308 22UF

PM300

| | | | | | |
|---|---|---|---|---|---|
| VIN | 2 | VIN | VOUT | 6 | VOUT_VCCBRAM/IO |
| ON/OFF_VCCBRAM/IO | 1 | ON/OFF | PG | 9 | PG_VCCBRAM/IO |
| VS+_VCCBRAM/IO | 7 | VS+ | VS- | 8 | VS-_VCCBRAM/IO |
| SEQ_VCCBRAM/IO | 3 | SEQ | DATA | 12 | DATA_VCCINT |
| TRIM_VCCBRAM/IO | 5 | TRIM | SMBALERT | 13 | SMBALERT_VCCINT |
| SYNC_VCCBRAM/IO | 10 | SYNC | ADDR1 | 15 | ADDR1_VCCBRAM/IO |
| CLK_VCCINT | 11 | CLK | ADDR0 | 16 | ADDR0_VCCBRAM/IO |
| | | SGND 14 | GND 4 | GND 17 | |

SIG_GND

C333 0.1UF — C334 0.047UF

C311 0.1UF — C312 0.047UF

C313 4.7UF — C314 4.7UF

C315 4.7UF — C316 47UF

C317 47UF — C318 47UF

C319 47UF — C321 47UF

C322 47UF — C323 47UF

C324 47UF — C325 470UF

C327 470UF — C328 470UF

C329 470UF — C330 470UF

J301

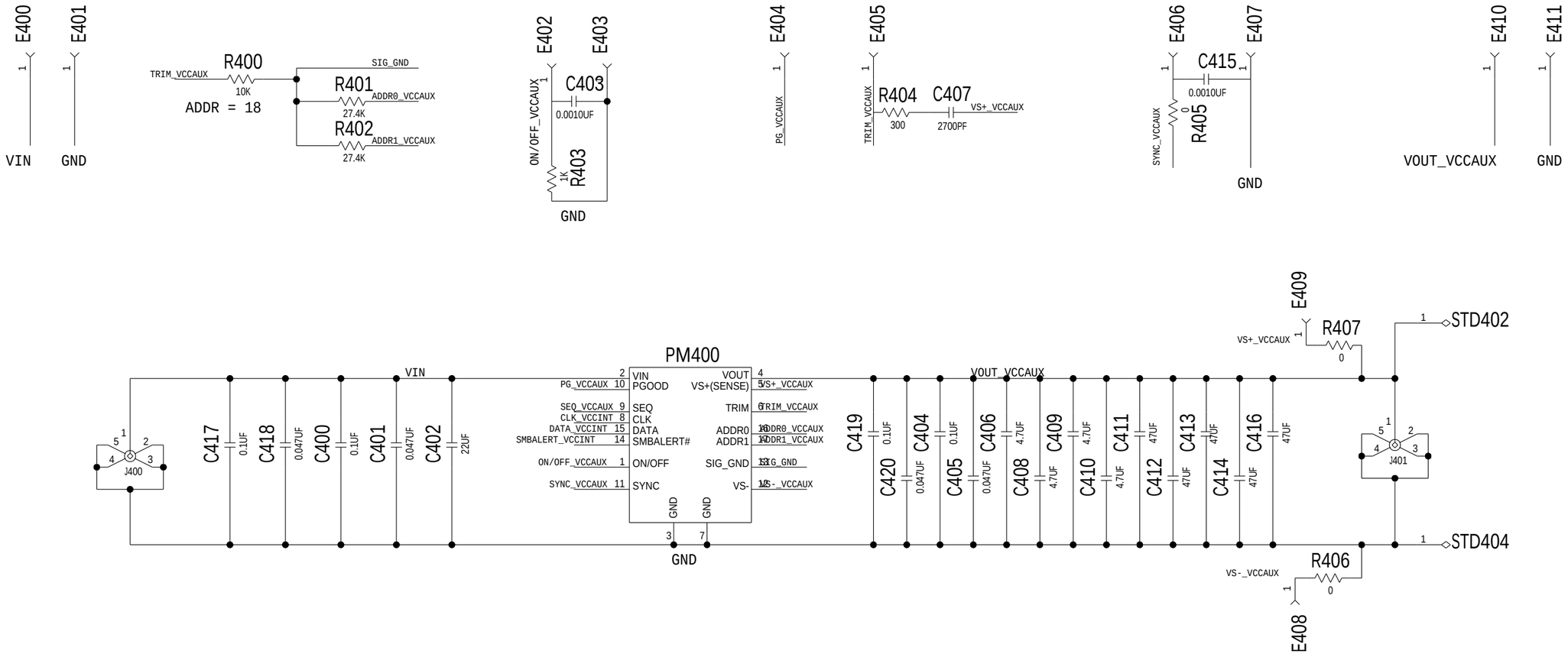
GND

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| TITLE: | XILINX VIRTEX EVAL BOARD |
| SUBTITLE: | XCVU37P |
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| REV: | AM1 |
| LAST WRITTEN: | Wed Oct 03 13:44:33 2018 |

GE-ENERGY

PROPRIETARY -

# VCCAUX/IO/ADC - PJT004

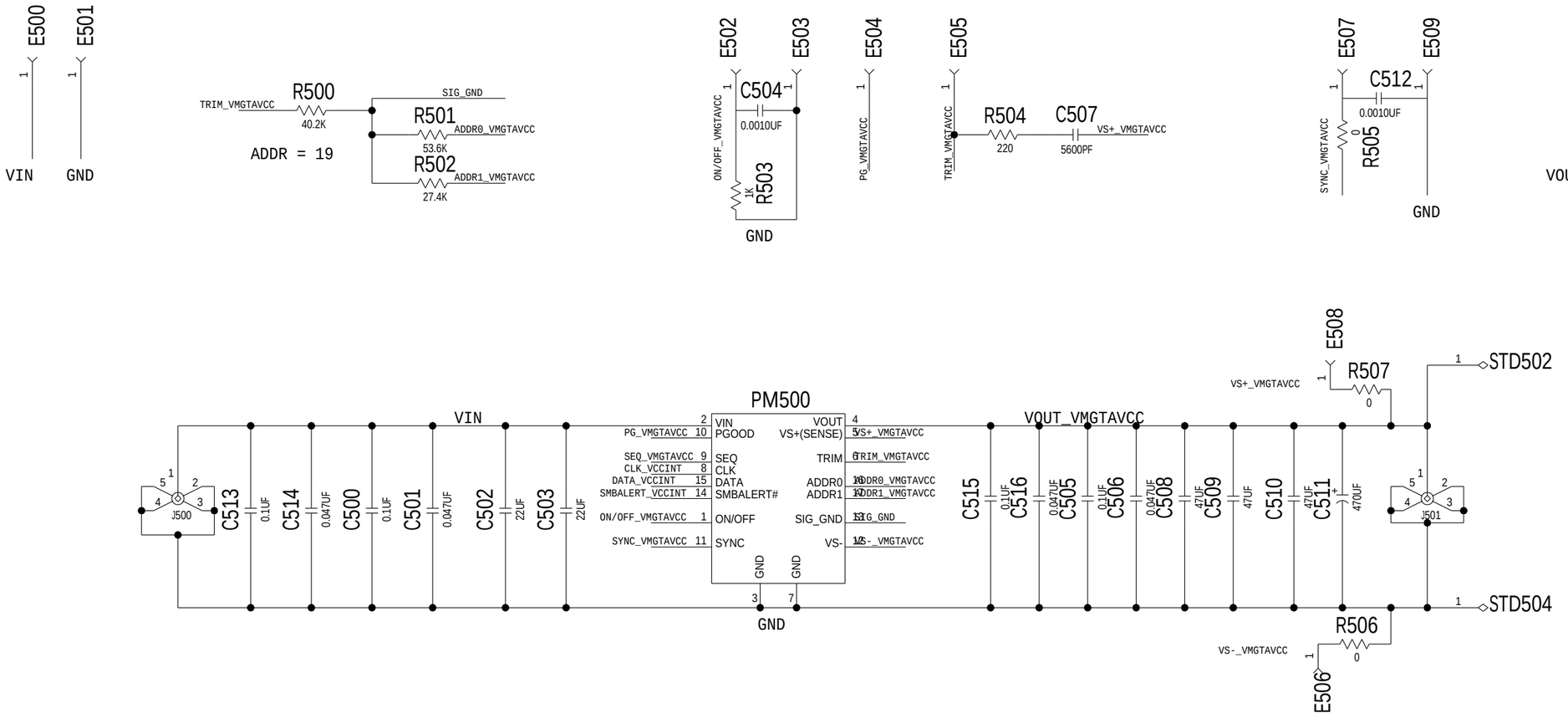



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| TITLE: | XILINX VIRTEX EVAL BOARD |
| SUBTITLE: | XCVU37P |
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| : | ISS: 1 |
| SHEET: OF: | REV: AM1 |
| LAST WRITTEN: Wed Oct 03 13:44:44 2018 | |

GE-ENERGY

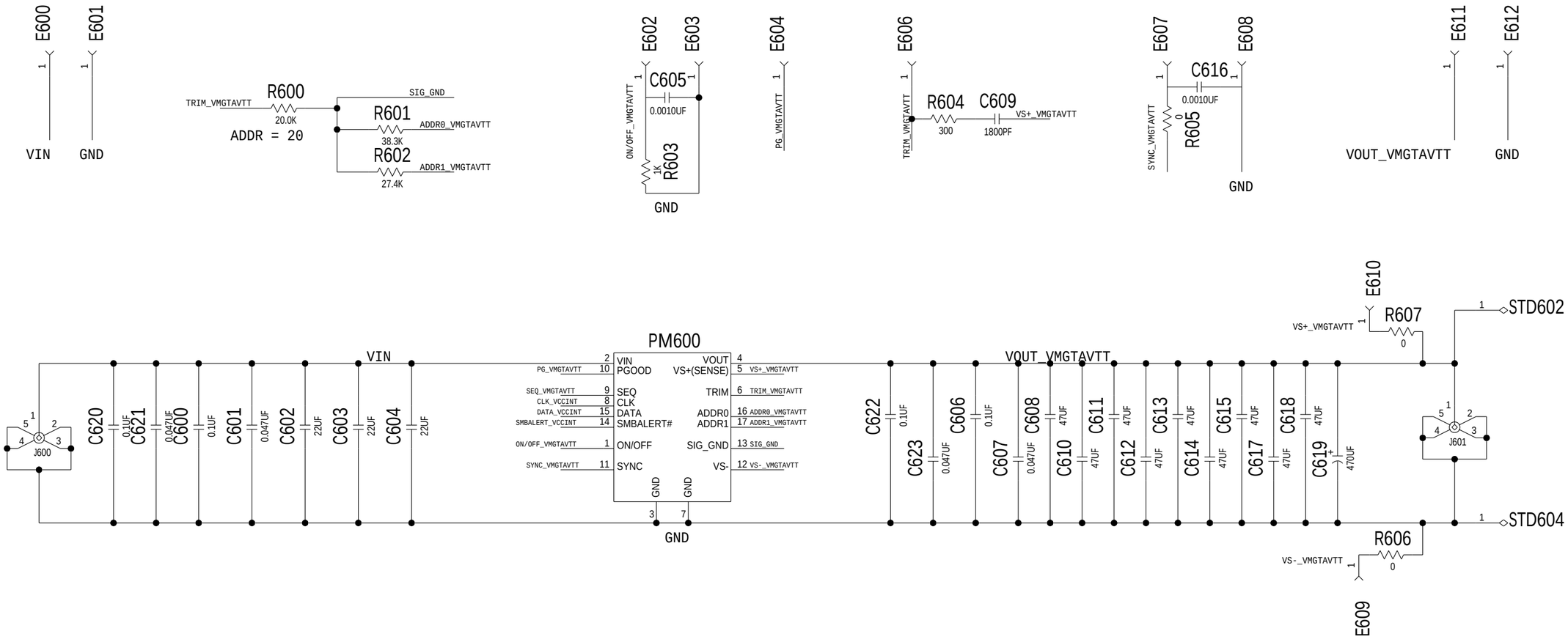
PROPRIETARY -

# VMGTAVCC - PDT012



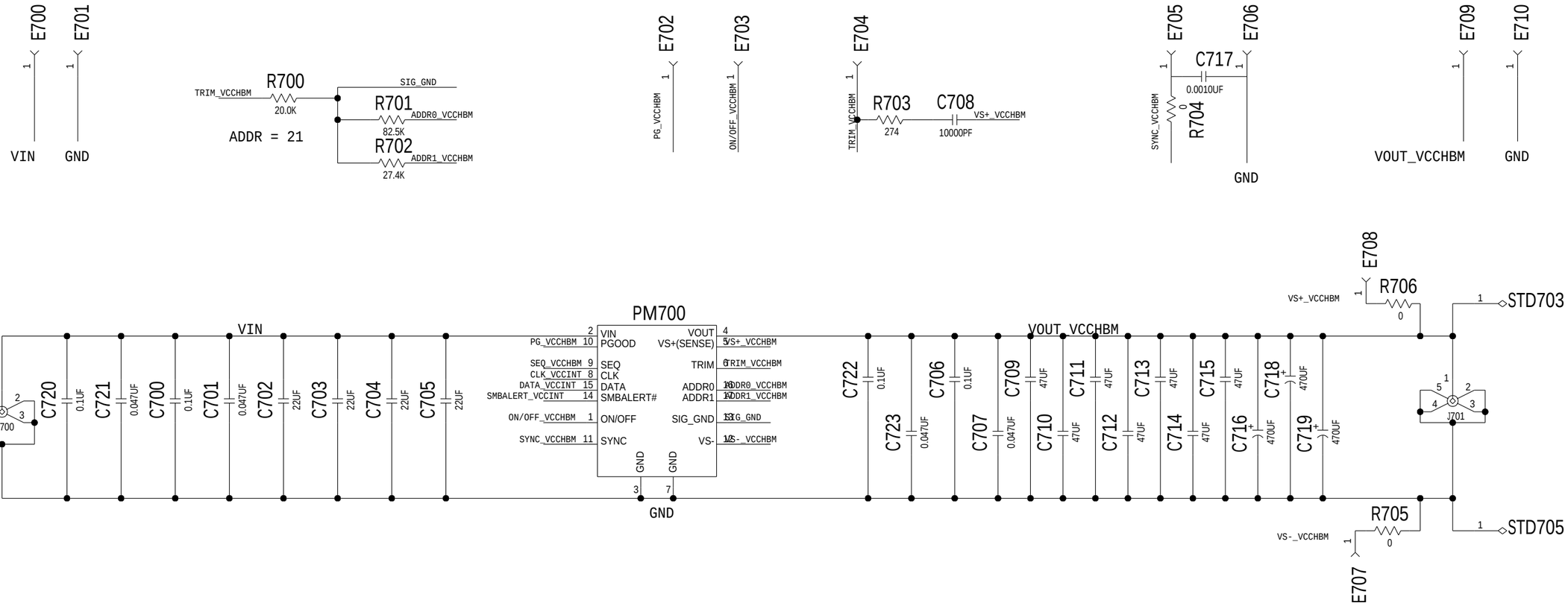

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| SUBTITLE: XCVU37P | |
| PROJECT: XILINX_VIRTEX_VU37P | TYPE: SD |
| : | ISS: 1 |
| SHEET: OF: | REV: AM1 |
| LAST WRITTEN: Wed Oct 03 13:44:54 2018 | |
| GE-ENERGY | |
| PROPRIETARY - | |

# VMGTAVTT - PJT020




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|---|---|
| TITLE: XILINX VIRTEX EVAL BOARD | |
| SUBTITLE: XCVU37P | |
| PROJECT: XILINX_VIRTEX_VU37P | TYPE: SD |
| : | ISS: 1 |
| SHEET: OF: | REV: AM1 |
| LAST WRITTEN: Wed Oct 03 13:44:50 2018 | 65 OF 200 |
| GE-ENERGY | |
| PROPRIETARY - | |

# VCC_HBM - PJT020

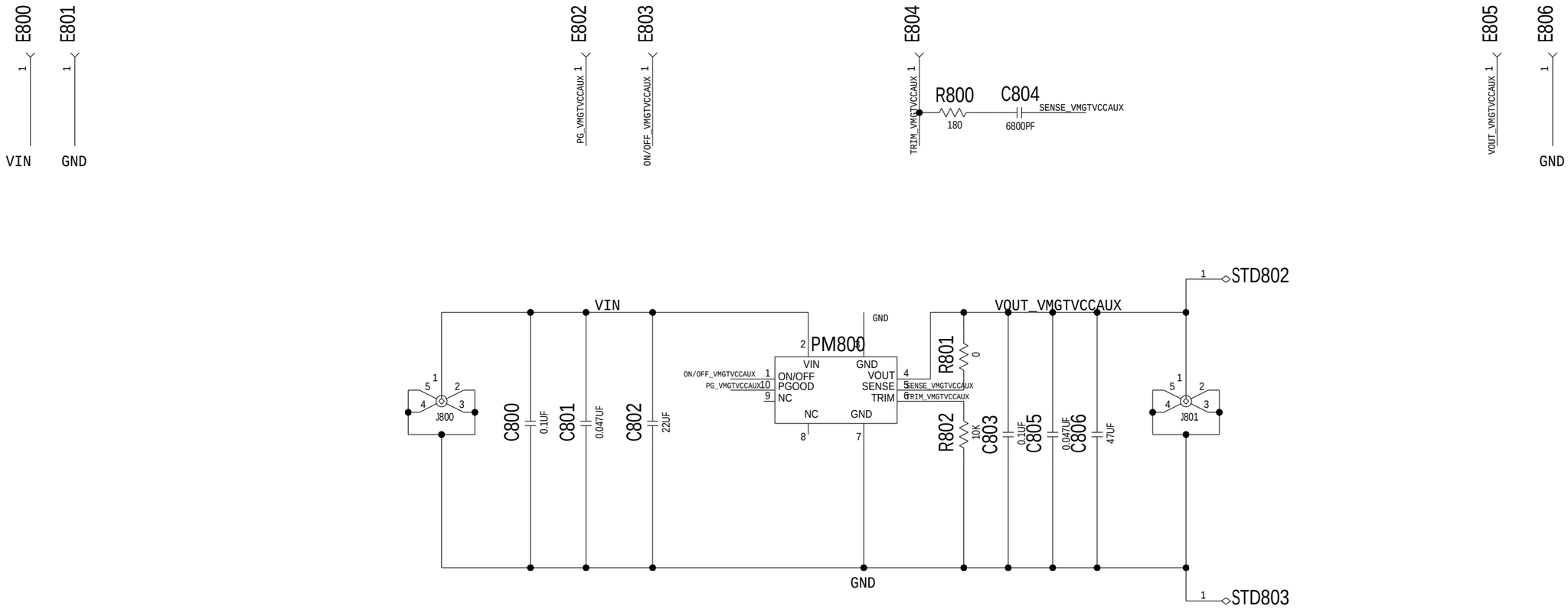



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| TITLE: | XILINX VIRTEX EVAL BOARD |
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| SHEET: OF: | REV: AM1 |
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GE-ENERGY

PROPRIETARY -

# VMGTVCCAUX - APXS002

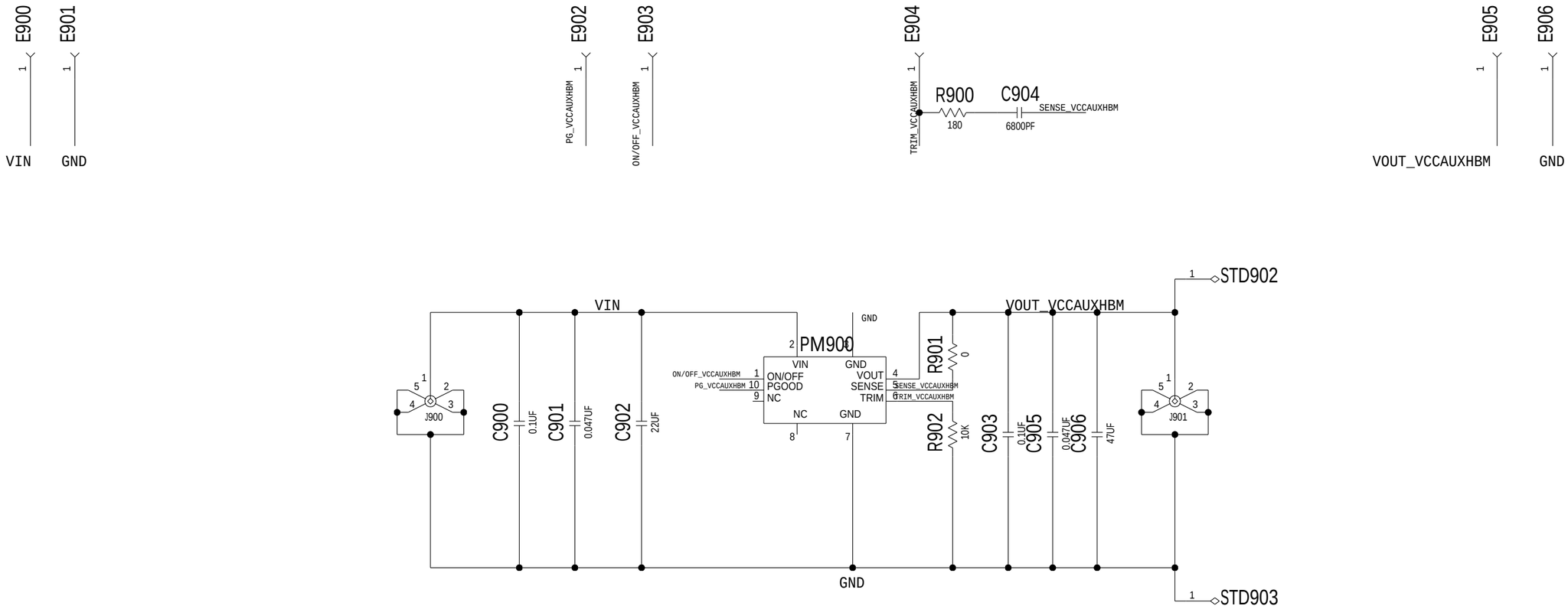



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| TITLE: | XILINX VIRTEX EVAL BOARD |
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| LAST WRITTEN: | Thu Jul 26 10:54:32 2018 |

GE-ENERGY

PROPRIETARY -

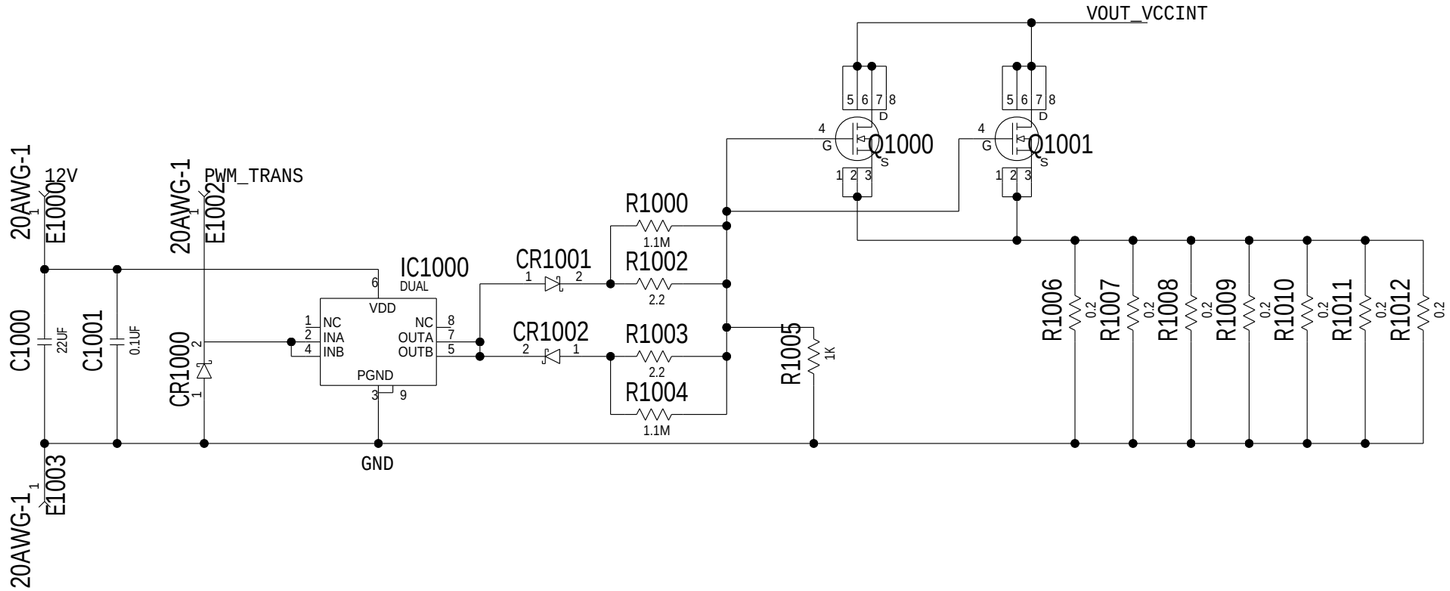
# VCCAUX_HBM - APXS002




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|---|---|
| TITLE: | XILINX VIRTEX EVAL BOARD |
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GE-ENERGY

PROPRIETARY -




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|---|---|
| TITLE: XILINX VIRTEX EVAL BOARD | |
| SUBTITLE: XCVU37P | |
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| : | ISS: 1 |
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| GE-ENERGY | |
| PROPRIETARY - | |