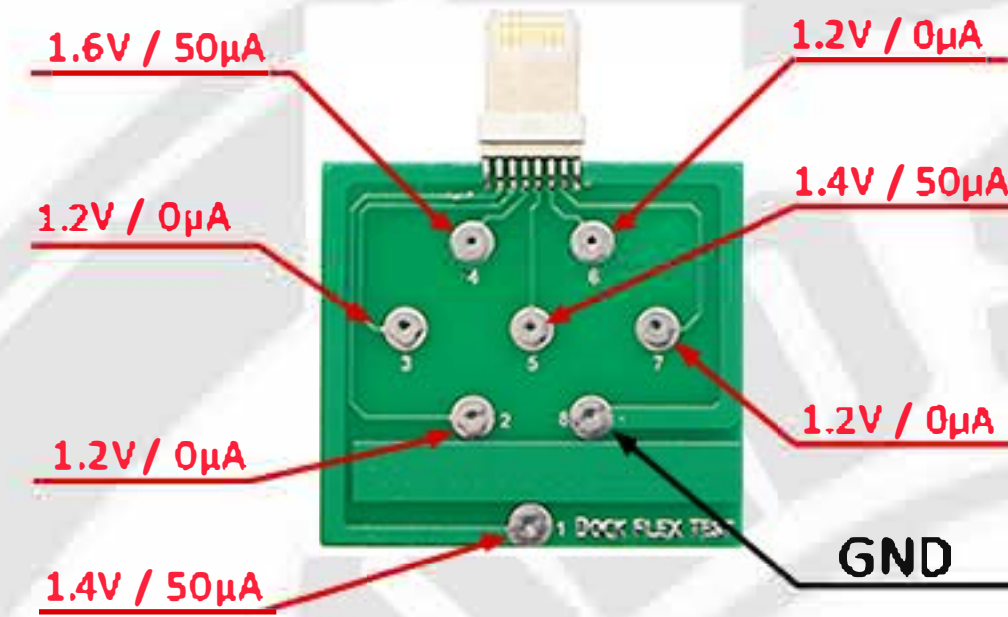


VCORE - IPHONE 6

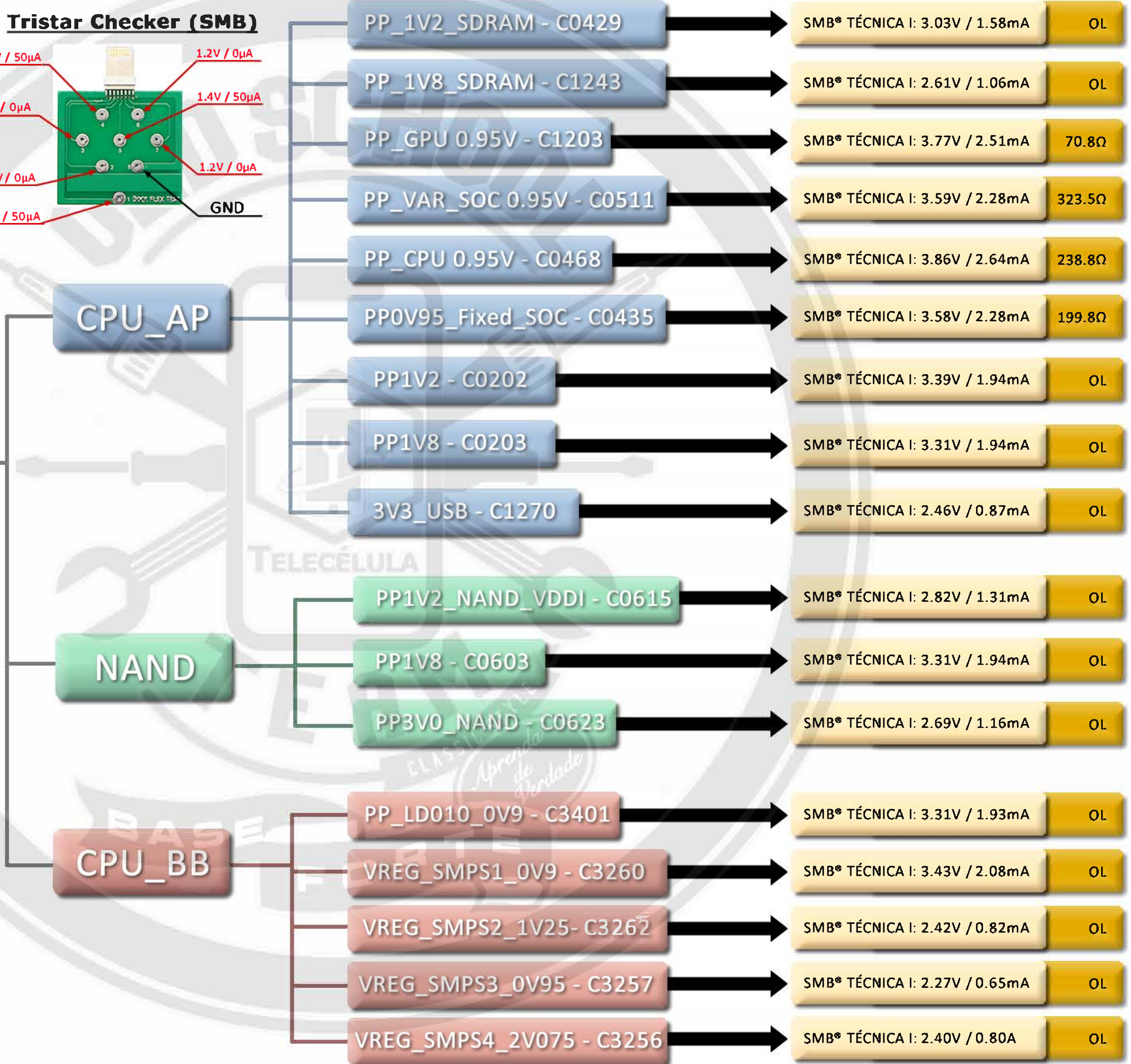
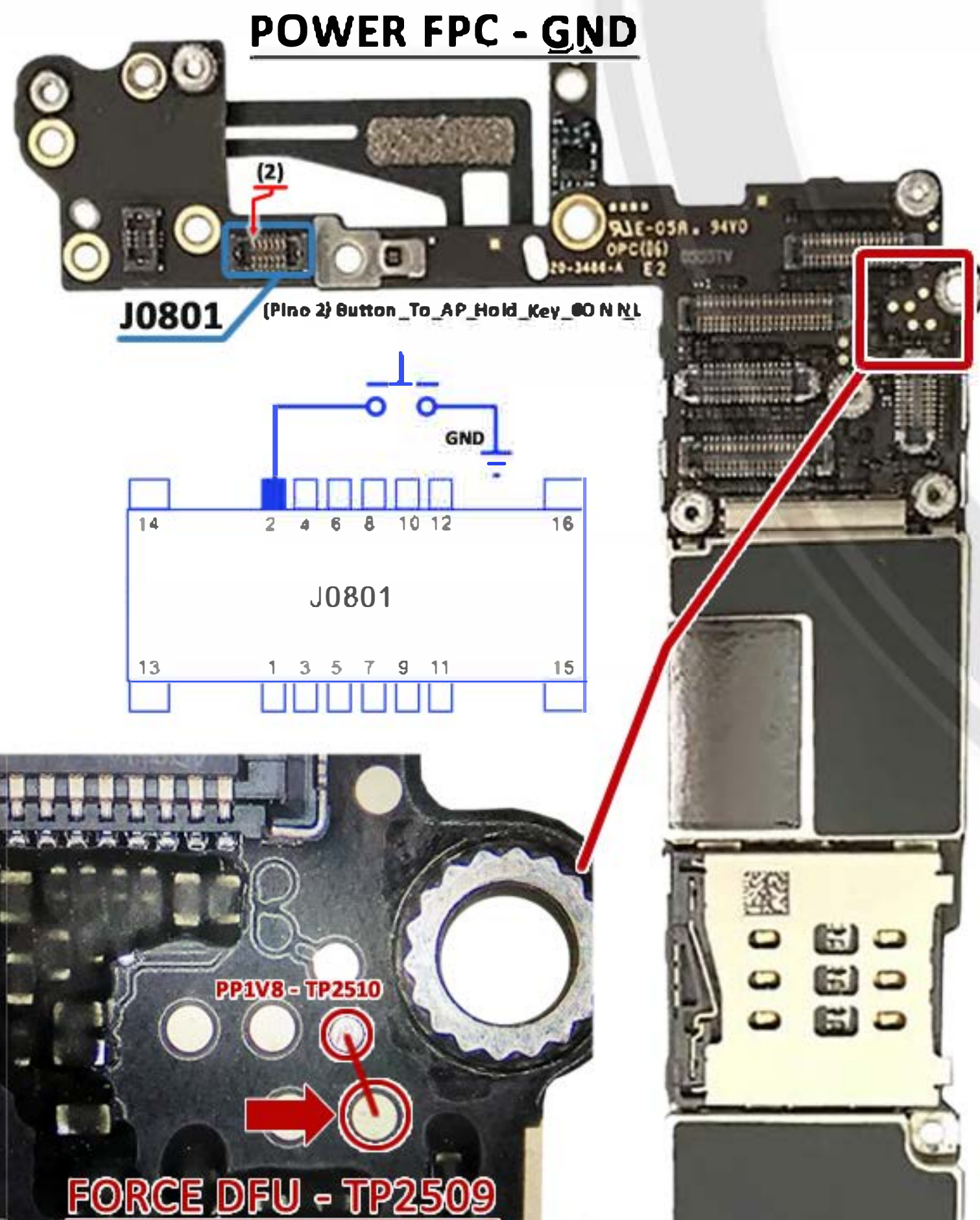
SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA
 Calibração = 4.01V / 2.82mA
 Resistência 400Ω

Comparador	
VBAT - TP2513	= 2.47V - 0.89mA
SWI - PIN 2 E 3 J2523	= 2.27V - 0.64mA
VCC Main - C1417	= 2.47V - 0.89mA
PP_5V0_USB - TP2501	= 1.66V - 0.02mA
CAT1 - TP2518	= 0.00V - 000mA
CAT2 - TP2519	= 0.00V - 000mA
Anodo - TP2520	= 1.43V - 000mA

Tristar Checker (SMB)



VDD_IC's



SMB® TÉCNICA I: 3.03V / 1.58mA	OL
SMB® TÉCNICA I: 2.61V / 1.06mA	OL
SMB® TÉCNICA I: 3.77V / 2.51mA	70.8Ω
SMB® TÉCNICA I: 3.59V / 2.28mA	323.5Ω
SMB® TÉCNICA I: 3.86V / 2.64mA	238.8Ω
SMB® TÉCNICA I: 3.58V / 2.28mA	199.8Ω
SMB® TÉCNICA I: 3.39V / 1.94mA	OL
SMB® TÉCNICA I: 3.31V / 1.94mA	OL
SMB® TÉCNICA I: 2.46V / 0.87mA	OL
SMB® TÉCNICA I: 2.82V / 1.31mA	OL
SMB® TÉCNICA I: 3.31V / 1.94mA	OL
SMB® TÉCNICA I: 2.69V / 1.16mA	OL
SMB® TÉCNICA I: 3.31V / 1.93mA	OL
SMB® TÉCNICA I: 3.43V / 2.08mA	OL
SMB® TÉCNICA I: 2.42V / 0.82mA	OL
SMB® TÉCNICA I: 2.27V / 0.65mA	OL
SMB® TÉCNICA I: 2.40V / 0.80A	OL

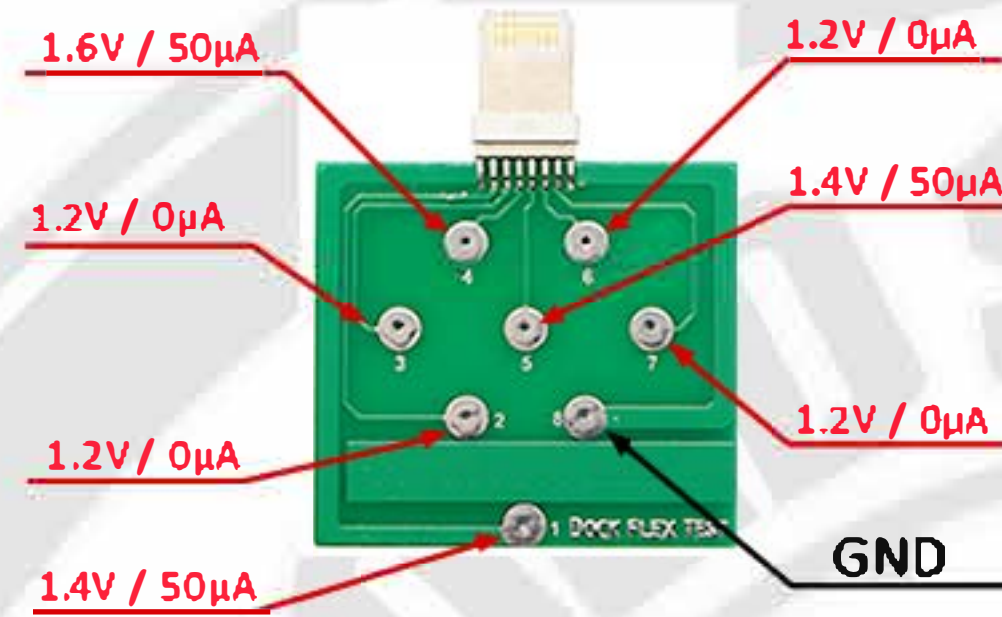
VCORE - IPHONE 6 PLUS

Comparador

VBAT - TP2539	=	2.47V - 0.88mA
SWI - PIN 2 E 3 J2523	=	2.28V - 0.68mA
VCC Main - C1417	=	2.47V - 0.88mA
PP_5V0_USB - TP2501	=	1.66V - 0.02mA
CAT1 - TP2518	=	0.00V - 000mA
CAT2 - TP2519	=	0.00V - 000mA
Anodo - TP2520	=	1.45V - 000mA
CAT3 - TP2557	=	0.00V - 000mA
CAT4 - TP258	=	0.00V - 000mA
BL34 Anodo - TP2559	=	1.45V - 000mA

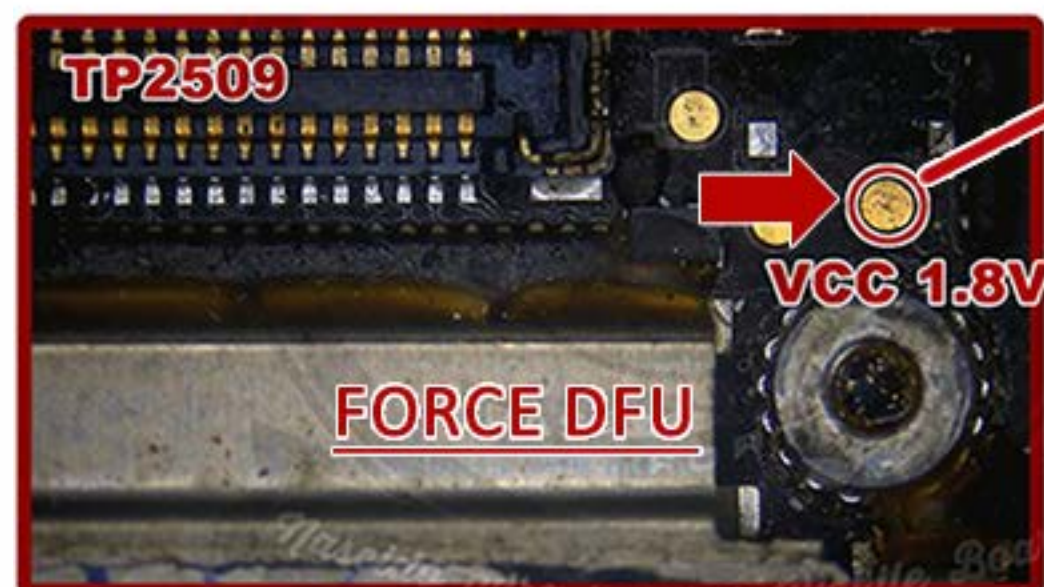
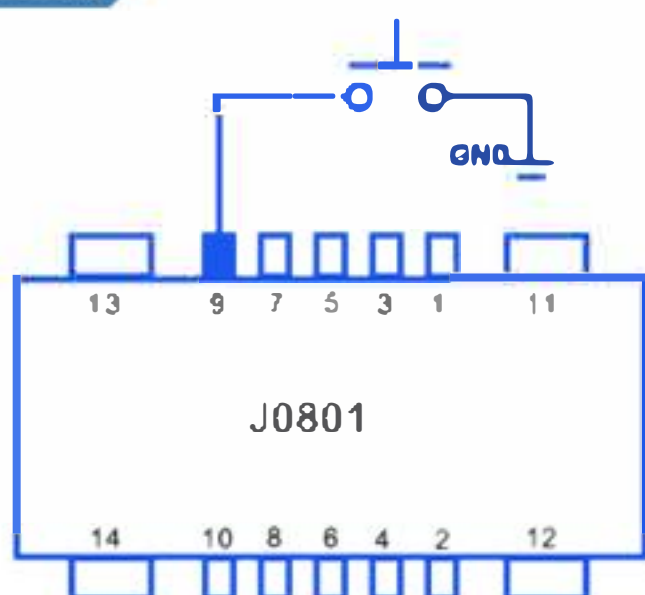
SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA
Calibração = 4.01V / 2.83mA
Resistência 400Ω

Tristar Checker (SMB)



VDD_IC's

POWER FPC - GND



CPU_AP

NAND

CPU_BB

PP_1V2_SDRAM - C1216

PP_1V8_SDRAM - C1243

PP_GPU 0.95V - C1203

PP_VAR_SOC 0.95V - C0511

PP_CPU 0.95V - C1290

PP0V95_Fixed_SOC - C0435

PP1V2 - C0202

PP1V8 - C0203

3V3_USB - C1270

PP1V2_NAND_VDDI - C0615

PP1V8 - C0603

PP3V0_NAND - C0623

PP_LD010_0V9 - C3401

VREG_SMPS1_0V9 - C3260

VREG_SMPS2_1V25 - C3262

VREG_SMPS3_0V95 - C3257

VREG_SMPS4_2V075 - C3256

SMB® TÉCNICA I: 3.20V / 1.80mA OL

SMB® TÉCNICA I: 3.19V / 1.78mA OL

SMB® TÉCNICA I: 3.81V / 2.57mA 62.7Ω

SMB® TÉCNICA I: 3.61V / 2.31mA 281.4Ω

SMB® TÉCNICA I: 3.88V / 2.65mA 190.6Ω

SMB® TÉCNICA I: 3.81V / 2.57mA 62.8Ω

SMB® TÉCNICA I: 3.38V / 2.03mA OL

SMB® TÉCNICA I: 2.98V / 1.52mA OL

SMB® TÉCNICA I: 2.45V / 0.86mA OL

SMB® TÉCNICA I: 2.78V / 1.27mA OL

SMB® TÉCNICA I: 2.98V / 1.52mA OL

SMB® TÉCNICA I: 2.58V / 1.01mA OL

SMB® TÉCNICA I: 3.35V / 1.98mA OL

SMB® TÉCNICA I: 3.56V / 2.25mA OL

SMB® TÉCNICA I: 2.42V / 0.82mA OL

SMB® TÉCNICA I: 2.28V / 0.66mA OL

SMB® TÉCNICA I: 2.28V / 0.60A OL

APN 820-5507-A

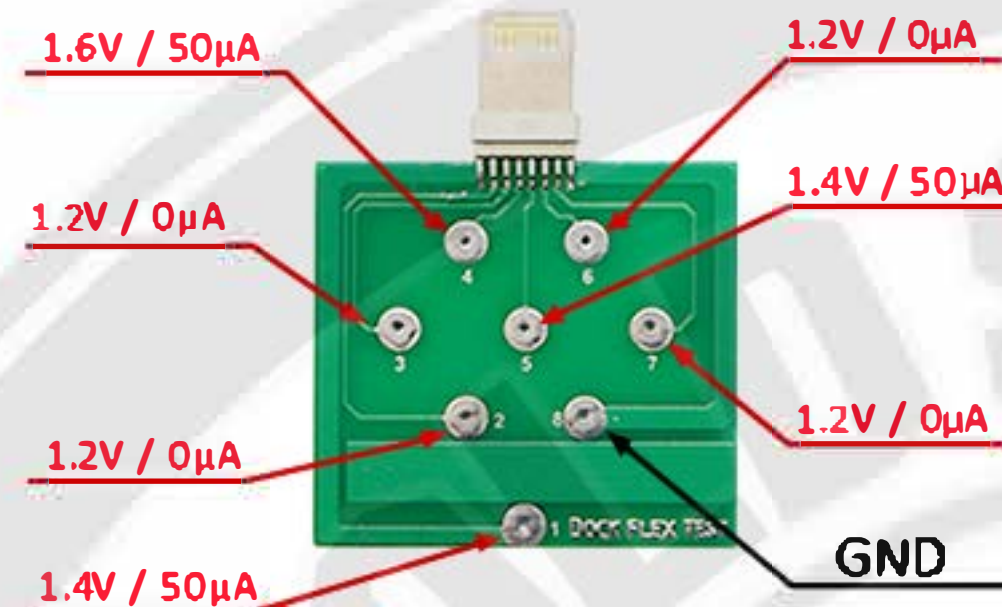
VCORE - IPHONE 6S

SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA Resistência 20KΩ
Calibração = 4.00V / 2.85mA

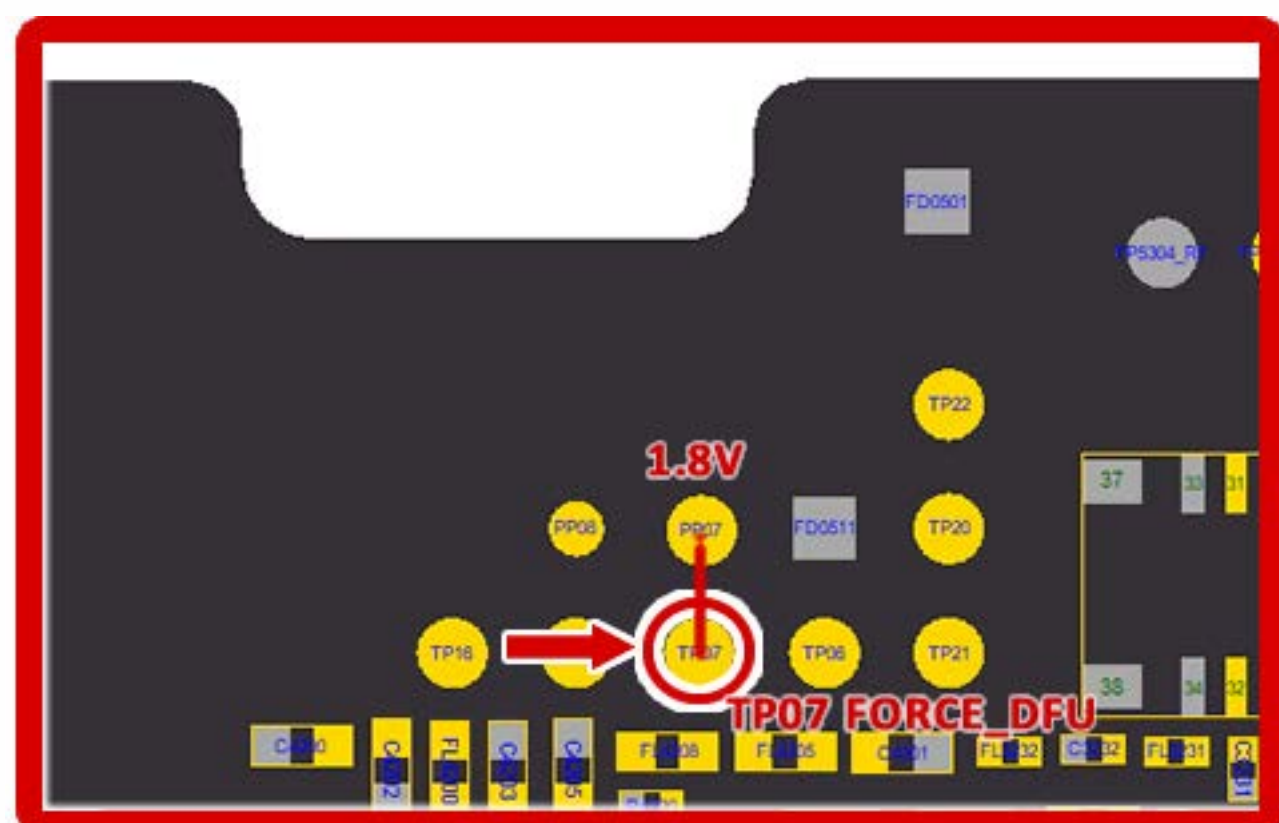
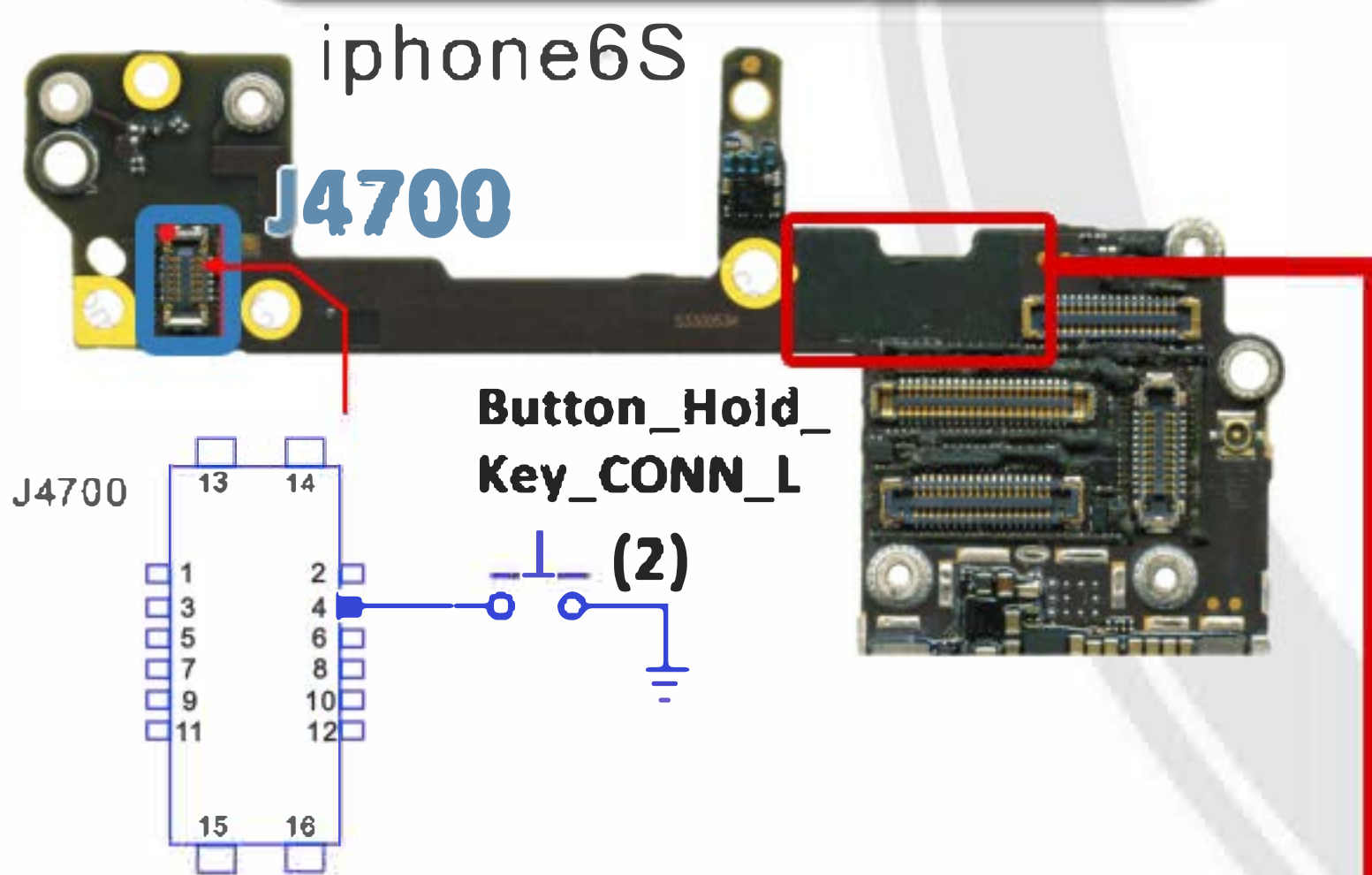
Comparador

VBAT	=	2.77V - 1.27mA
VCC Main	=	2.77V - 1.27mA
PP_5V0_USB	=	1.64V - 002mA
Tigris_Battery SWI	=	2.27V - 0.66mA
Button_Hold_Key_Conn_L	=	2.57V - 1.01mA

Tristar Checker (SMB)



VDD_IC's



U0600
CPU_AP

U1500
NAND
VLGA

U_BB_RF
CPU_BB
U_PMU_RF

PP_GPU - C1101 - (0.8V) - TP1120 PP_GPU_SRAM - C1227 - (0.9v)	SMB® TÉCNICA I: 3.99V / 2.81mA SMB® TÉCNICA I: 3.10V / 1.67mA	15Ω 564Ω
PP_CPU - C1120 - (0.625V ~ 1.0V)- TP1100 PP_SOC - C1151 - (0.725V ~ 0.825V)	SMB® TÉCNICA I: 3.95V / 2.76mA SMB® TÉCNICA I: 3.95V / 2.76mA	39.6Ω 32.8Ω
PP_CPU_SRAM - C1223 - (0.8V ~ 1.0V)	SMB® TÉCNICA I: 2.97V / 1.50mA	150Ω
PP1V1 - C1240 (1.06V)	SMB® TÉCNICA I: 3.71V / 2.45mA	1.84KΩ
PP1V1_SDRAM - C1310 (1.6V~1.17V)	SMB® TÉCNICA I: 3.04V / 1.59mA	1.17KΩ
PPOV8_OWL - C1250 - (0.8V)	SMB® TÉCNICA I: 3.10V / 1.67mA	930Ω
PP1V8_SDRAM - C1300 - (1.7V ~ 1.95V)	SMB® TÉCNICA I: 2.66V / 1.11mA	OL
PP1V8 - C1320 - (1.6V ~ 1.98V)	SMB® TÉCNICA I: 2.91V / 1.44mA	17.6Ω
PP1V8_ALWAYS - R0952 - (1.8V) PP_FIXED - C1201 - (0.85V)	SMB® TÉCNICA I: 2.58V / 1.01mA SMB® TÉCNICA I: 3.63V / 2.34mA	OL 119Ω
PP3V0_NAND - C1503	SMB® TÉCNICA I: 2.72V / 1.20mA	OL
PP1V8 - C1520/C1523	SMB® TÉCNICA I: 2.81V / 1.30mA	OL
PPOV9_NAND - C1540	SMB® TÉCNICA I: 3.58V / 2.28mA	854Ω
PMU_TO_BB_PMIC - RESET_L - C3503_RF (SINAL LOGICO) PP_OV9_LD03 (MSM CORE) - C3101_RF (0.9V)	SMB® TÉCNICA I: 2.15V / 0.49mA SMB® TÉCNICA I: 3.32V / 1.96mA	OL 415Ω
PP_OV9_SMPS2 (MSM MODEM) - C3102_RF (0.9V) PP_1V0_SMPS3 (MODEM SUB MEMORY) - C3103_RF (1.0V)	SMB® TÉCNICA I: 3.77V / 2.53mA SMB® TÉCNICA I: 3.53V / 2.23mA	108Ω 998Ω
PP_1V8_LDO8 - C3213_RF (1.75V ~ 1.8V) PP_1V2_LDO2 - C3204_RF (1.2V)	SMB® TÉCNICA I: 3.16V / 1.75mA SMB® TÉCNICA I: 3.12V / 1.70mA	OL OL
PP_1V8_LDO6 - C3229_RF (1.8V) PP_OV95_LDO4 - C3216_RF (0.95V)	SMB® TÉCNICA I: 2.97V / 1.50mA SMB® TÉCNICA I: 3.50V / 2.18mA	OL 4.29KΩ
PP_OV9_SMP1 - C3108_RF (0.9V) MDM_VREF_LPDDR2 - C3202_RF	SMB® TÉCNICA I: 3.78V / 2.54mA SMB® TÉCNICA I: 2.85V / 1.32mA	110Ω OL
PP_1V0_SMPS5 - C3631_RF (1.0V) PP_2V5_LDO1 - C3624_RF (2.5V)	SMB® TÉCNICA I: 2.32V / 0.70mA SMB® TÉCNICA I: 2.58V / 1.04mA	OL OL

APN 820-0040

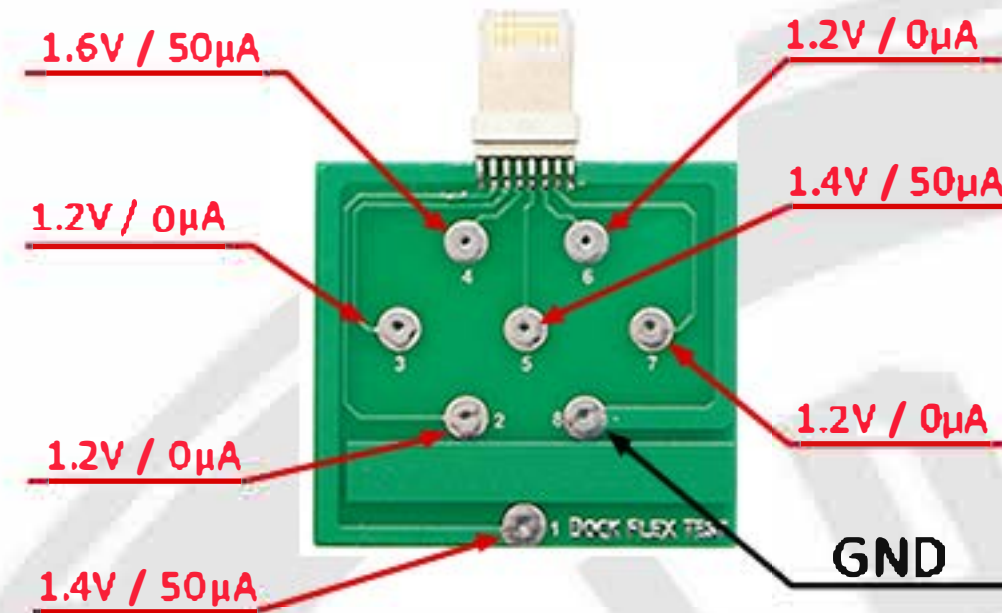
VCORE - IPHONE 6SP

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA
 Calibração = 4.01V / 2.85mA
 Resistência 400Ω

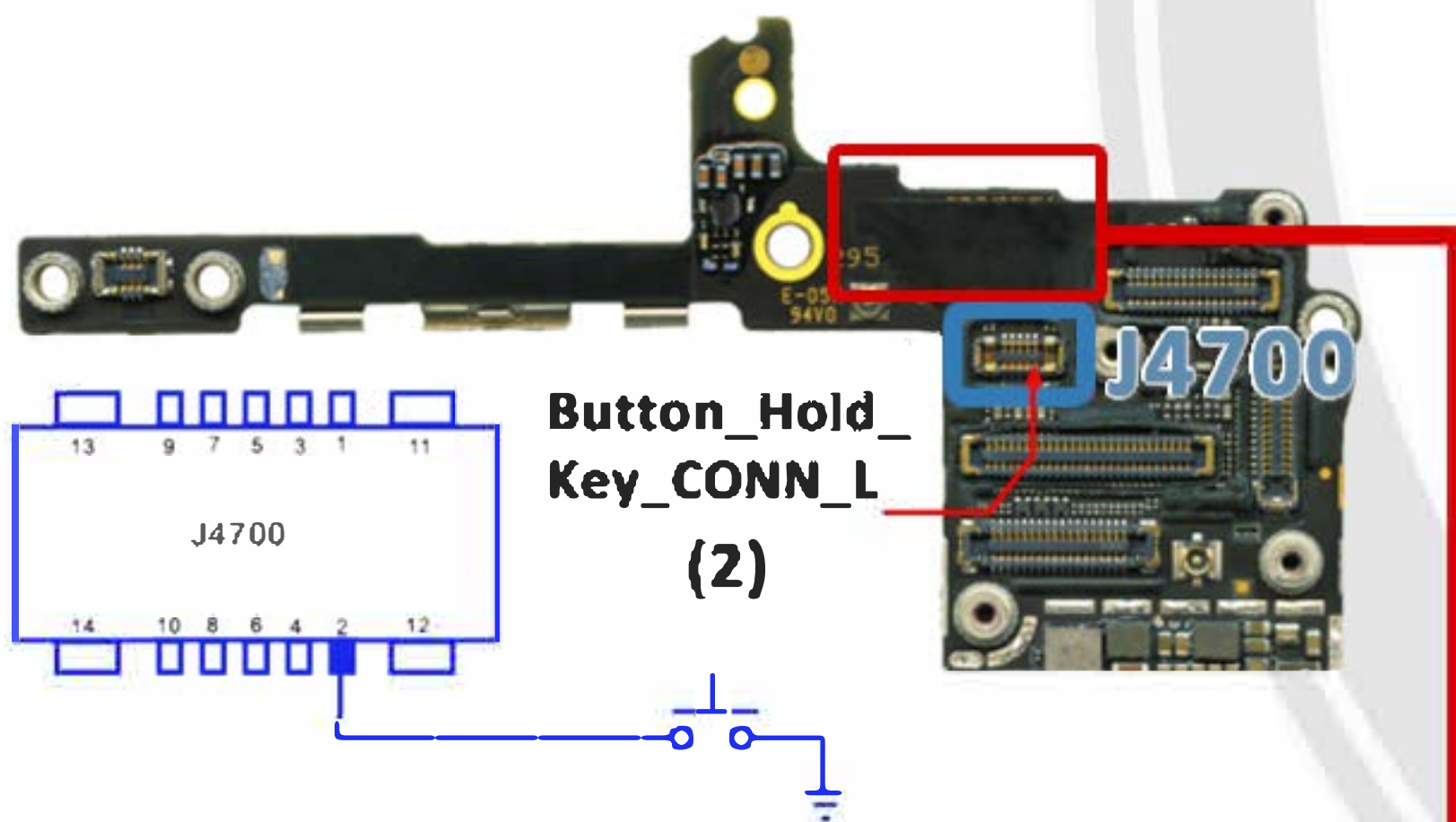
Comparador

VBAT - TP03	=3.00V - 1.60mA
VCC Main - FD0502	=2.84V - 1.36mA
PP_5V0_USB - TP01	=1.64V - 0.02mA
Tigris_Battery_SW1	=2.27V - 0.66mA
Button_Hold_Key_Conn_L	=2.50V - 0.94mA
PP_LCM_BL_CAT1-TP20	=1.64V - 0.01mA
PP_LCM_BL_CAT2-TP21	=1.64V - 0.01mA
PP_LCM_BL_CAT3-TP23	=1.64V - 0.01mA
PP_LCM_BL_CAT4-TP24	=1.64V - 0.01mA
PP_LCM_BL_34_Anode-TP25	=1.52V - 0.00mA

Tristar Checker (SMB)



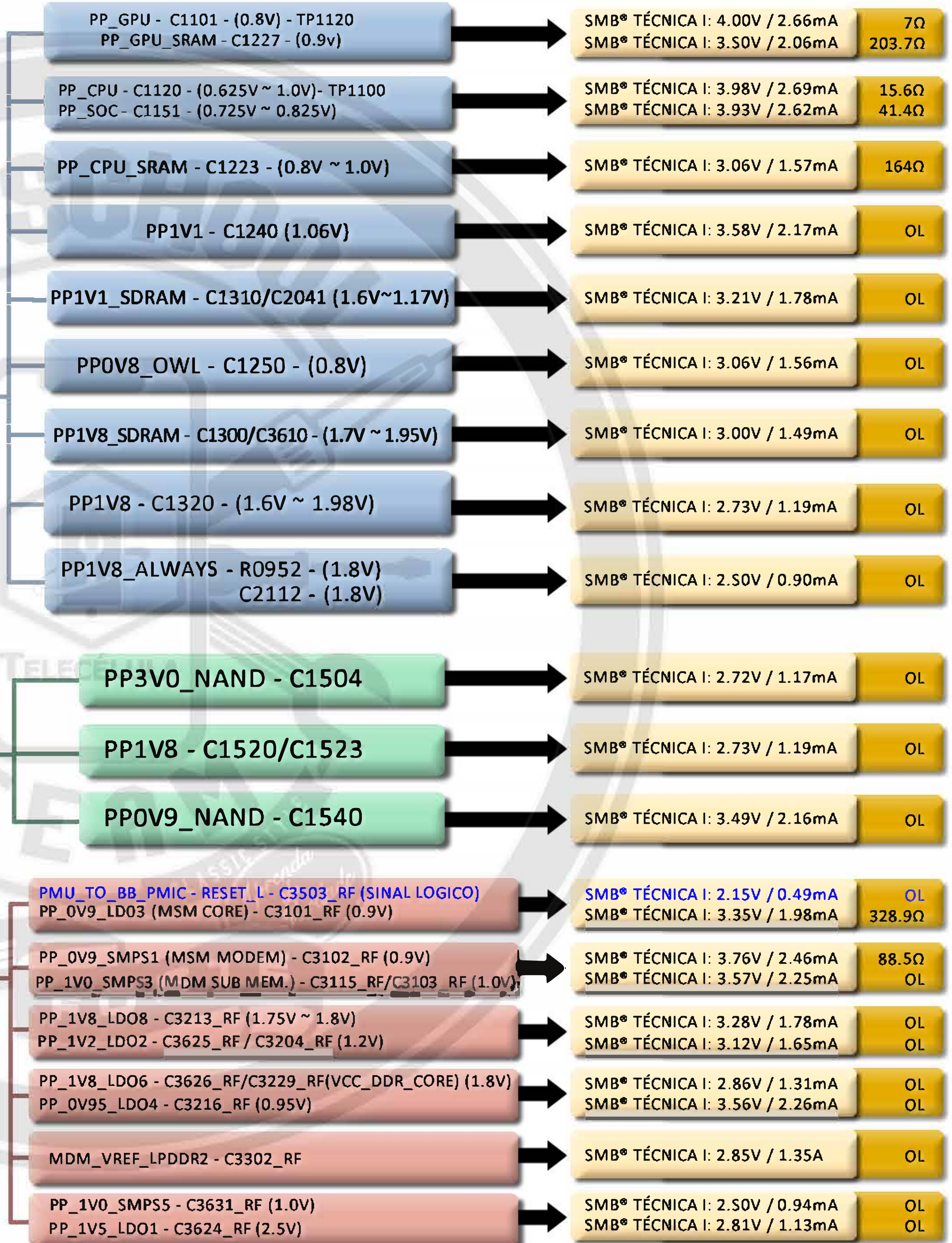
VDD_IC's



U0600
CPU_AP

U1500
NAND
VLGA

U_BB_RF
CPU_BB
U_PMU_RF

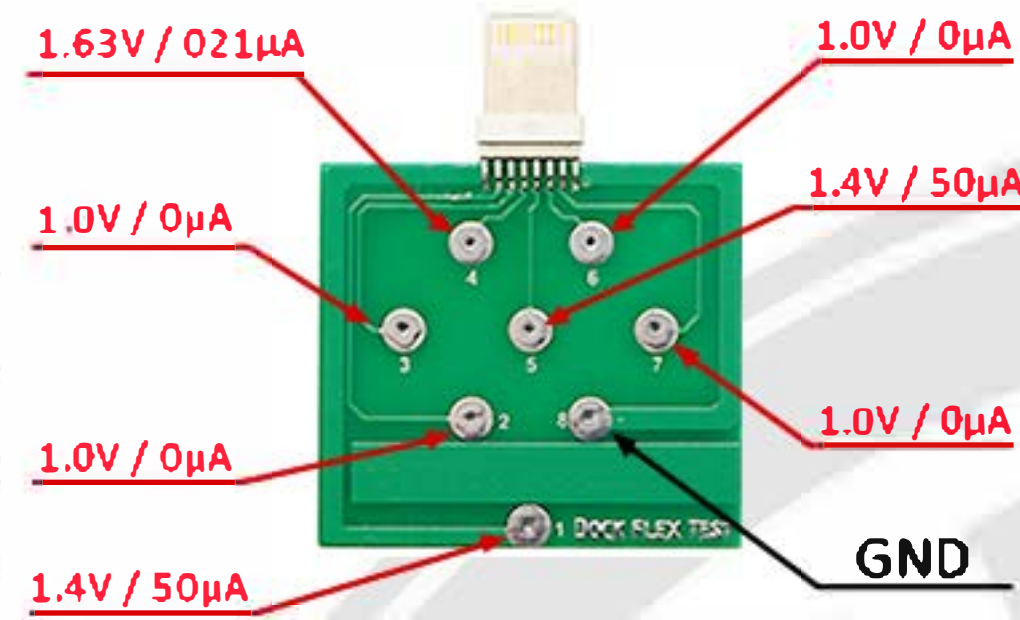


APN 820-00189-A

VCORE - IPHONE 7 (INTEL)

Comparador SMB		
VBatt vcc - TP0415	=	1.93V - 0.25mA
VCC Main - FD0408	=	1.90V - 0.21mA
PP_SV0_USB - TP0421	=	1.64V - 0.02mA
CAT1 - TP0409	=	1.64V - 0.01mA
CAT2 - TP0410	=	1.64V - 0.01mA
Anodo - TP0411	=	1.64V - 0.02mA
PP16V0_Mesa - TP0401	=	0.42V - 0.00mA
Force_DFU - TP0414	=	2.48V - 0.89mA

Tristar Checker



VOLTÍMETRO (DC 20V)

PP_CPU_VAR - C1401/C1461 - (0.625V ~ 1.6V) -TP1402
 PP_GPU_VAR - C1448/C1432 - (0.67V ~ 1.03V) -TP1401
 PP_SOC_VAR - C1403/C1465 (0.8V)

PP_CPU_SRAM_VAR - C1407 - (0.8V ~ 1.06V)
 PP_GPU_SRAM_VAR - C1439 - (0.8V ~ 1.03V)

PP0V9_SOC_FIXED - C1502/C1501 - (0.9V)
 PP1V1 - C1506 - (1.06V ~ 1.17V)

PP1V1_SDRAM - C1515 - (1.06V ~ 1.17V)
 PP1V8_SDRAM - C1615/C1601 (1.8V)

PP1V8 - C1602 - (1.8V)
 PP1V2_VREF - C1611 - (1.2V)

PP1V2_SOC - (1.2V) - C1013

PP0V9_NAND - C1704 - (0.9V)

PP1V8 - C1701/C1710 - (1.8V)

PP3V0_NAND - C1748/C1736 - (3.0V)

VDD_IO_1V2 - C5803_RF (1V2)
 VDD_SIM1 - R5501_RF / C6900_RF

VDD_DDR_1V8 - C5740_RF - (1.8V)

PP1V8_SDRAM - C1816 (1.8V)

VDD_BB_PMU_3V3 - C5820_RF (3.3V)

VDD_CORE_1V0 - C5801_RF (1.0V)

SMB® SMARTBOX TÉCNICA 1 25Cº
 MODO COMPARADOR 20V / 20mA 400Ω E
 Calibração = 4.01V / 2.85mA 40KΩ

SMB® TÉCNICA 1: 4.00V / 2.84mA 7.2Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA 5.9Ω
 SMB® TÉCNICA 1: 3.99V / 2.83mA 8.9Ω

SMB® TÉCNICA 1: 3.30V / 1.94mA 78.9Ω
 SMB® TÉCNICA 1: 3.37V / 2.03mA 118.1Ω

SMB® TÉCNICA 1: 3.96V / 2.79mA 26.1Ω
 SMB® TÉCNICA 1: 3.58V / 2.30mA 3.58KΩ

SMB® TÉCNICA 1: 3.67V / 2.42mA 0.68KΩ
 SMB® TÉCNICA 1: 2.80V / 1.31mA 27.08KΩ

SMB® TÉCNICA 1: 2.72V / 1.20mA OL
 SMB® TÉCNICA 1: 2.04V / 0.38mA OL

SMB® TÉCNICA 1: 2.41V / 0.82mA OL

SMB® TÉCNICA 1: 3.56V / 2.27mA 1.2KΩ

SMB® TÉCNICA 1: 3.05V / 1.63mA 27.82KΩ

SMB® TÉCNICA 1: 2.54V / 0.99mA OL

SMB® TÉCNICA 1: 3.14V / 1.74mA 28.62KΩ
 SMB® TÉCNICA 1: 2.73V / 1.22mA OL

SMB® TÉCNICA 1: 2.80V / 1.31mA OL

SMB® TÉCNICA 1: 2.80V / 1.31mA 27.08KΩ

SMB® TÉCNICA 1: 2.37V / 0.76mA OL

SMB® TÉCNICA 1: 3.30V / 1.91mA 1.69KΩ

VDD_IC's

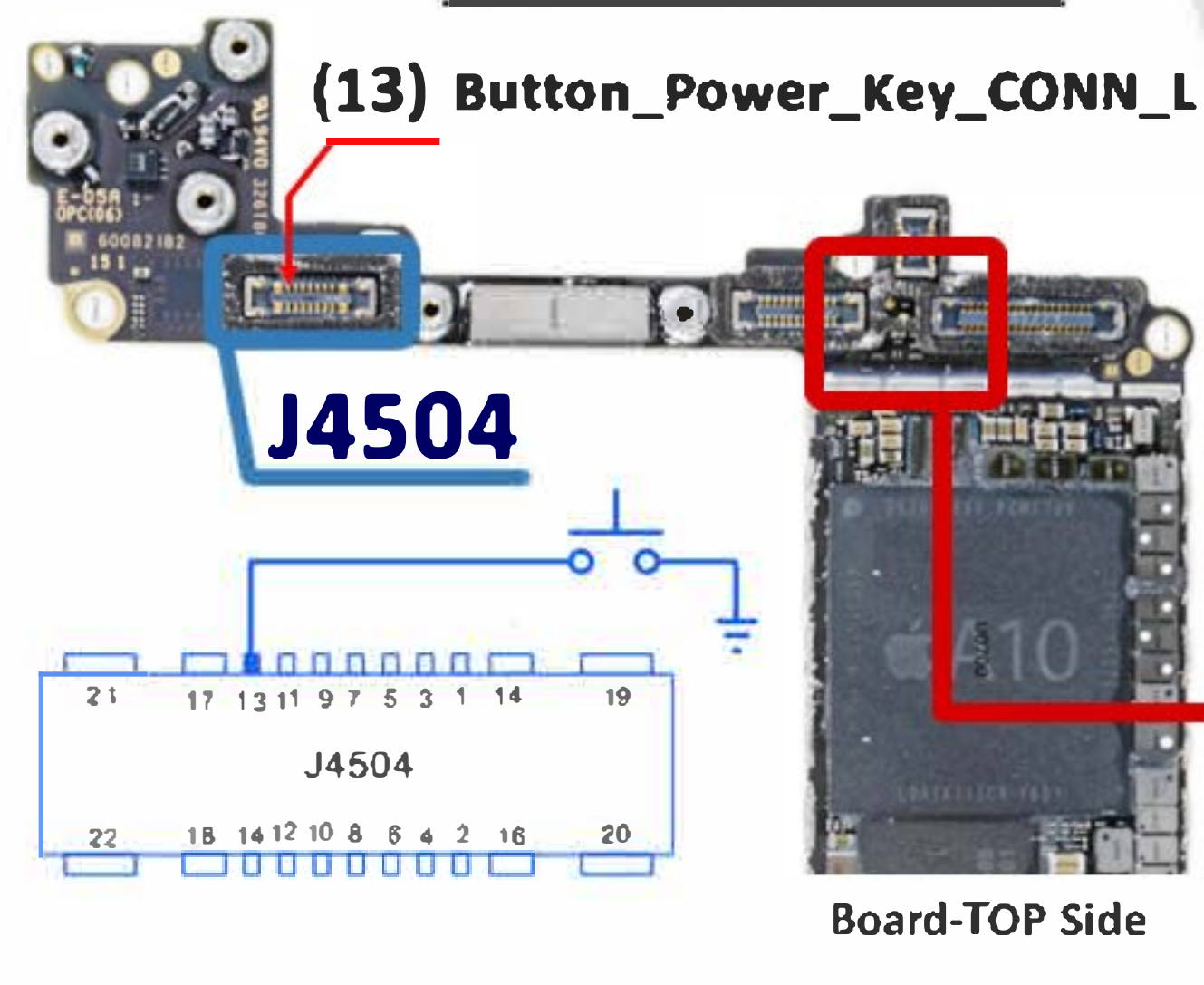
U0600
CPU_AP

U1500
NAND

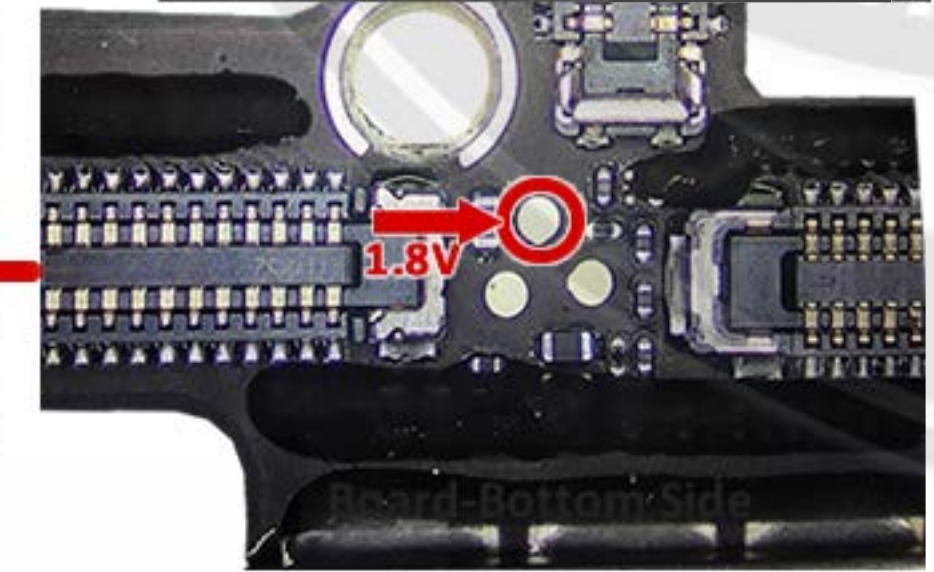
CPU_BB

POWER FPC - GND

(13) Button_Power_Key_CONN_L



Force DFU (TP0414)

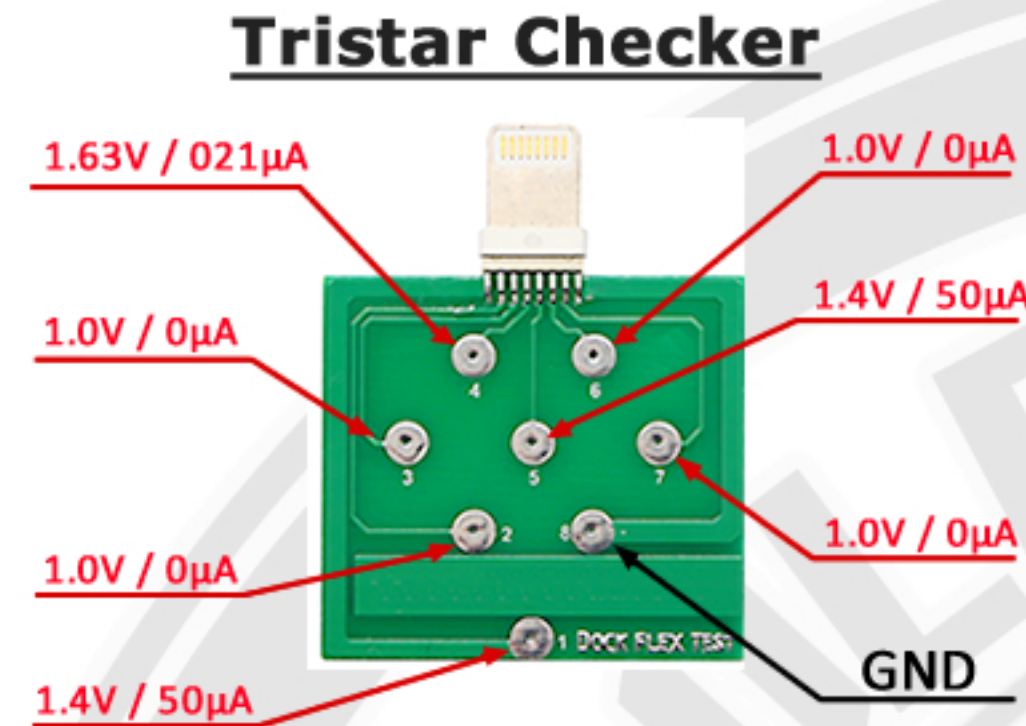


APN 820-00 -A

VCORE - IPHONE 7 (Qualcomm)

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | 25C°
 Calibração = 4.00V / 2.85mA | Ω 400Ω

Comparador SMB	
VBatt vcc	= 1.93V - 0.25mA
VCC Main	= 1.92V - 0.22mA
PP_5V0_USB	= 1.63V - 0.02mA
CAT1	= 1.63V - 0.01mA
CAT2	= 1.63V - 0.01mA
Anodo	= 1.63V - 0.02mA
PP16V0_Mesa	= 1.42V - 0.00mA
Force_DFU	= 2.55V - 1.02mA



VDD_IC's

U0600
CPU_AP

U1500
NAND

CPU_BB

VOLTÍMETRO (DC 20V)
 PP_CPU_VAR - C1401/C1461 - (0.625V ~ 1.6V) -TP1402
 PP_GPU_VAR - C1448/C1432 - (0.67V ~ 1.03V) -TP1401
 PP_SOC_VAR - C1403/C1465 (0.8V)

PP_CPU_SRAM_VAR - C1407 - (0.8V ~ 1.06V)
 PP_GPU_SRAM_VAR - C1439 - (0.8V ~ 1.03V)

PP0V9_SOC_FIXED - C1502/C1501 - (0.9V)
 PP1V1 - C1506 - (1.06V ~ 1.17V)

PP1V1_SDRAM - C1515 - (1.06V ~ 1.17V)
 PP1V8_SDRAM - C1615/C1601 (1.8V)

PP1V8 - C1602 - (1.8V)
 PP1V2_VREF - C1611 - (1.2V)

PP1V2_SOC - (1.2V) - C1013

PP0V9_NAND - C1704 - (0.9V)

PP1V8 - C1701/C1710 - (1.8V)
 NAND VREF_ENTRE C1724 E C1725

PP3V0_NAND - C1748/C1736 - (3.0V)

PP_1V0_SMPS5 (MSM CORE) - C5701_RF (1.0V)
 BBPMU_TO_PMU_AMUX (MSM MODEM) C5702_RF (0.9V)

PP_1V2_LDO2 - C5742_RF - (1.2V)
 PP_1V8_LDO6 - C5608_RF/C5704_RF/C5745_RF (1.8V) VDD_DDR_CORE

PP_1V7_LCO5 - C5751_RF (1.7V)
 PP_1V5_LDO1 - C5748_RF (1.5V)

PP_0V95_LDO4 - C5753_RF (0.95)
 PP_1V8_LDO7 - C5749_RF (1.8V)

PP_1V8_LDO8 - C5738_RF (1.8)
 PP_3V075_LDO10 - C5743_RF (3.075V)

PP_1V0_LDO9 - C5630_RF/C5703_RF - (1.0V)
 PP_1V225_SMPS2 - C5631_RF/C5615_RF (1.225V)

SMB® TÉCNICA 1: 3.98V / 2.83mA 10Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA 8.4Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA 11.4Ω

SMB® TÉCNICA 1: 3.04V / 1.62mA 91.4Ω
 SMB® TÉCNICA 1: 3.35V / 2.02mA 130.4Ω

SMB® TÉCNICA 1: 3.92V / 2.76mA 38Ω
 SMB® TÉCNICA 1: 3.92V / 2.76mA 37.1Ω

SMB® TÉCNICA 1: 3.92V / 2.76mA OL
 SMB® TÉCNICA 1: 2.97V / 1.54mA OL

SMB® TÉCNICA 1: 2.64V / 1.13mA OL
 SMB® TÉCNICA 1: 2.04V / 0.40mA OL

SMB® TÉCNICA 1: 2.40V / 0.86mA OL

SMB® TÉCNICA 1: 3.60V / 2.34mA OL

SMB® TÉCNICA 1: 3.60V / 2.34mA OL
 SMB® TÉCNICA 1: V / µA OL

SMB® TÉCNICA 1: 2.55V / 1.00mA OL

SMB® TÉCNICA 1: 3.37V / 2.04mA 247.9Ω
 SMB® TÉCNICA 1: 3.69V / 2.45mA 128.5Ω

SMB® TÉCNICA 1: 2.88V / 1.42mA OL
 SMB® TÉCNICA 1: 3.11V / 1.72mA OL

SMB® TÉCNICA 1: 3.09V / 1.69mA OL
 SMB® TÉCNICA 1: 2.69V / 1.18mA OL

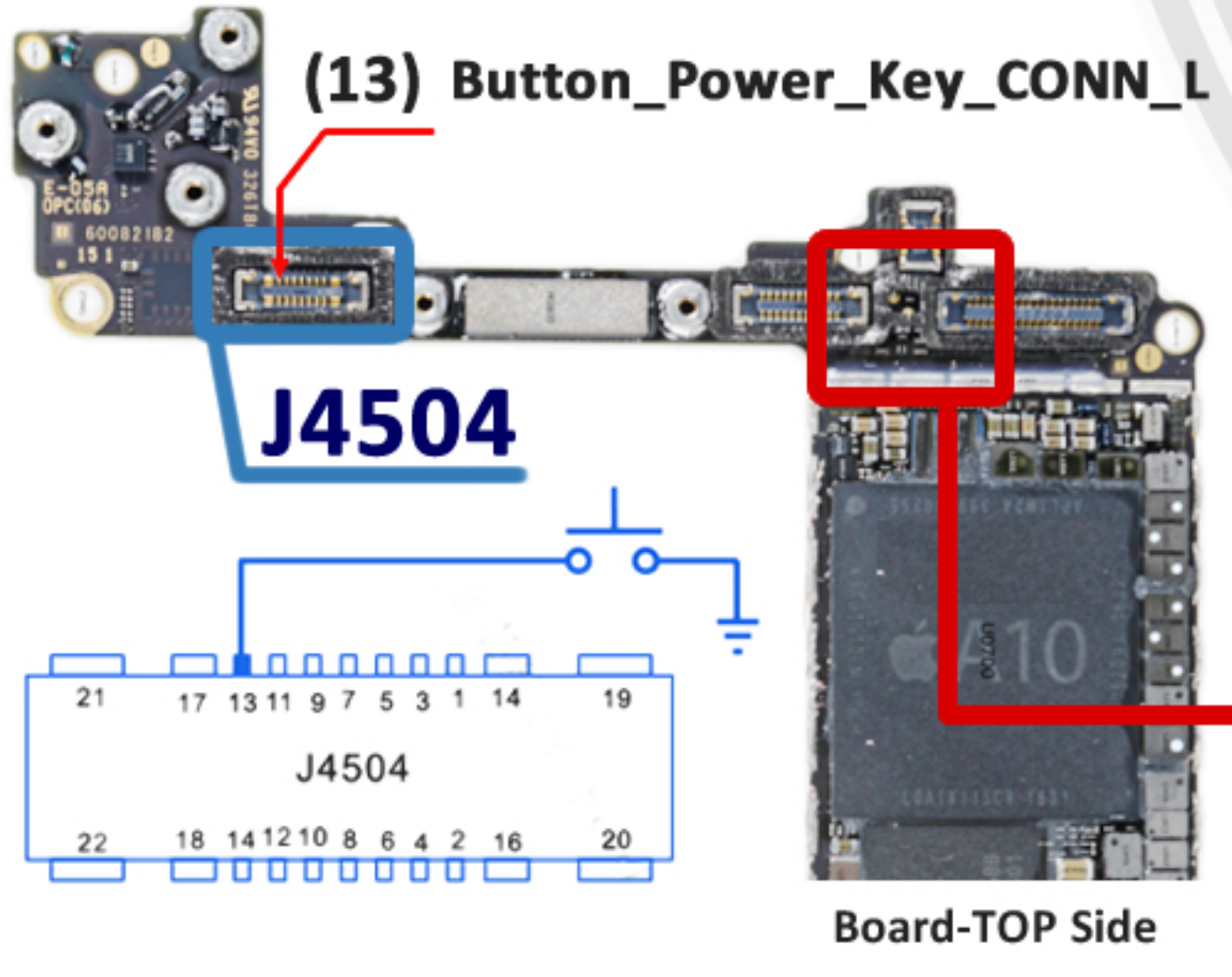
SMB® TÉCNICA 1: 3.38V / 2.06mA OL
 SMB® TÉCNICA 1: 2.99V / 1.56mA OL

SMB® TÉCNICA 1: 3.35V / 2.02mA OL
 SMB® TÉCNICA 1: 3.09V / 1.69mA OL

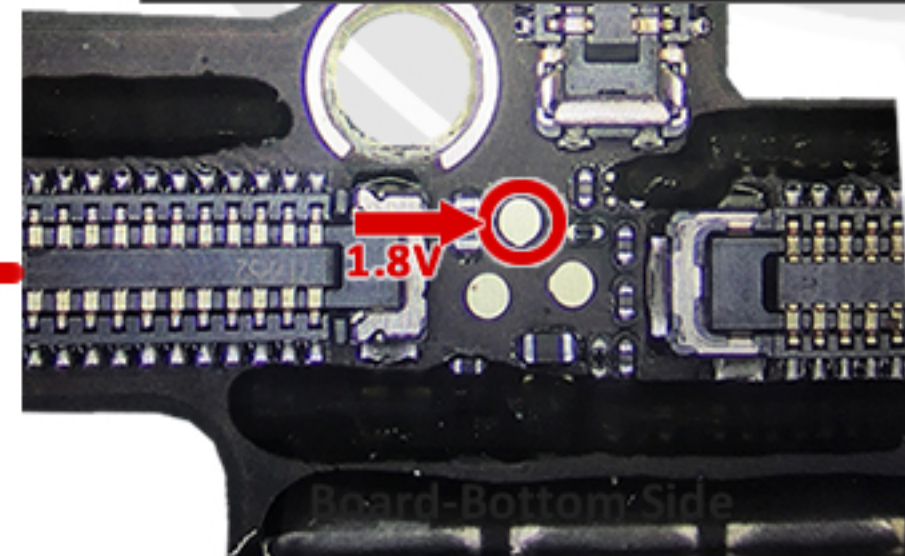
SMB® TÉCNICA 1: 3.48V / 2.17mA OL
 SMB® TÉCNICA 1: 1.80V / 0.12mA OL

POWER FPC - GND

(13) Button_Power_Key_CONN_L



Force DFU (TP0414)



APN 820-00249-A

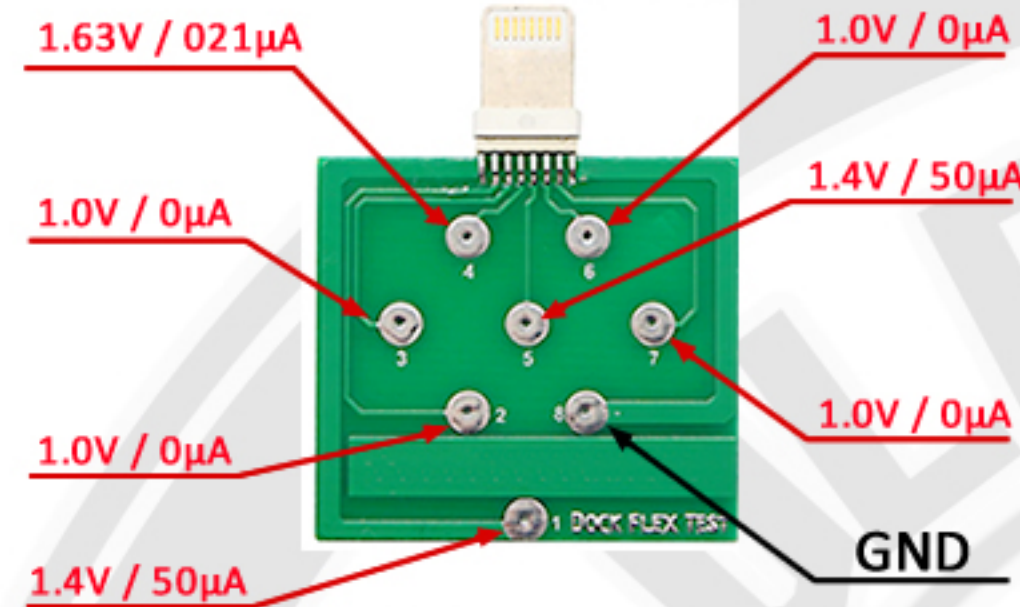
VCORE - IPHONE 7 PLUS (INTEL)

SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA | 25C°
Calibração = 4.00V / 2.85mA | Ω
400Ω

Comparador SMB

Batt VCC - TP0415	= 1.96V - 0.30mA
VCC Main - TP0408	= 1.94V - 0.28mA
PP_5V0_USB - TP0421	= 1.63V - 002mA
BL_CAT1 - TP0409	= 1.63V - 001mA
BL34_CAT1 - TP0417	= 1.63V - 001mA
BL_CAT2 - TP0410	= 1.63V - 001mA
BL34_CAT2 - TP0419	= 1.63V - 001mA
BL_Anode - TP0411	= 1.51V - 000mA
BL34_Anode - TP0418	= 1.51V - 000mA
PP16V0_Mesa - TP0401	= 0.33V - 000mA
Force_DFU - TP0414	= 2.47V - 0.89mA

Tristar Checker



VOLTÍMETRO (DC 20V)

PP_CPU_VAR - C1401/C1461 - (0.625V ~ 1.6V) -TP1402
 PP_GPU_VAR - C1448/C1432 - (0.67V ~ 1.03V) -TP1401
 PP_SOC_VAR - C1403/C1465 (0.8V)

PP_CPU_SRAM_VAR - C1407 - (0.8V ~ 1.06V)
 PP_GPU_SRAM_VAR - C1439 - (0.8V ~ 1.03V)

PP0V9_SOC_FIXED - C1502/C1501 - (0.9V)
 PP1V1 - C1506 - (1.06V ~ 1.17V)

PP1V1_SDRAM - C1515 - (1.06V ~ 1.17V)
 PP1V8_SDRAM - C1615/C1601 (1.8V)

PP1V8 - C1602 - (1.8V)
 PP1V2_VREF - C1611 - (1.2V)

PP1V2_SOC - (1.2V) - C1013

PP0V9_NAND - C1704 - (0.9V)

PP1V8 - C1701/C1710 - (1.8V)
 NAND VREF_ENTRE C1724 E C1725

PP3V0_NAND - C1748/C1736 - (3.0V)

VDD_IO_1V2 - C5803_RF (1V2)
 VDD_SIM1 - R5501_RF / C6900_RF

VDD_DDR_1V8 - C5740_RF - (1.8V)

PP1V8_SDRAM - C1816 (187V)

VDD_USB_3V15 - C5821_RF (3.15V)

VDD_CORE_1V0 - C5801_RF (1.0V)

SMB® TÉCNICA 1: 3.99V / 2.83mA | 8.6Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA | 6.8Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA | 9.5Ω

SMB® TÉCNICA 1: 3.11V / 1.69mA | 116Ω
 SMB® TÉCNICA 1: 3.49V / 2.75mA | 129.8Ω

SMB® TÉCNICA 1: 3.94V / 2.75mA | 30.8Ω
 SMB® TÉCNICA 1: 3.56V / 2.27mA | OL

SMB® TÉCNICA 1: 3.80V / 2.57mA | 180Ω
 SMB® TÉCNICA 1: 3.00V / 1.55mA | OL

SMB® TÉCNICA 1: 2.66V / 1.13mA | OL
 SMB® TÉCNICA 1: 2.05V / 0.39mA | OL

SMB® TÉCNICA 1: 2.42V / 0.83mA | OL

SMB® TÉCNICA 1: 3.48V / 2.16mA | OL

SMB® TÉCNICA 1: 2.66V / 1.13mA | OL
 SMB® TÉCNICA 1: 2.42V / 1.03mA | OL

SMB® TÉCNICA 1: 2.59V / 1.03mA | OL

SMB® TÉCNICA 1: 3.17V / 1.77mA | OL
 SMB® TÉCNICA 1: 2.69V / 1.17mA | OL

SMB® TÉCNICA 1: 2.72V / 1.21mA | OL

SMB® TÉCNICA 1: 3.00V / 1.53mA | OL

SMB® TÉCNICA 1: 2.00V / 0.33mA | OL

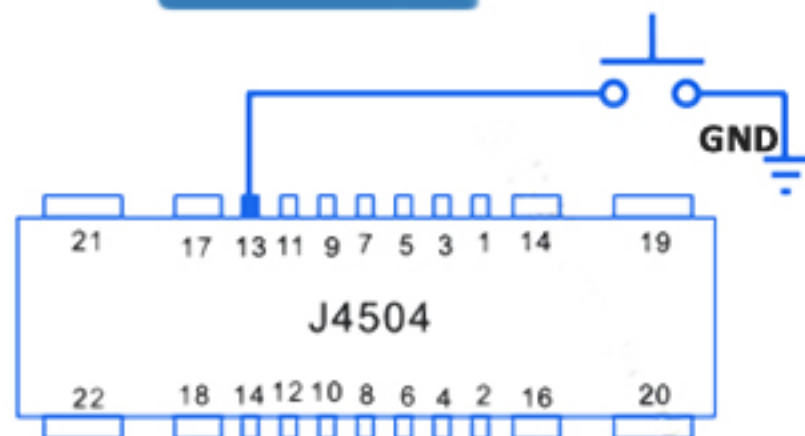
SMB® TÉCNICA 1: 3.28V / 1.98mA | OL

VDD_IC's

POWER FPC - GND

(13) Button_Power_Key_CONN_L

J4504

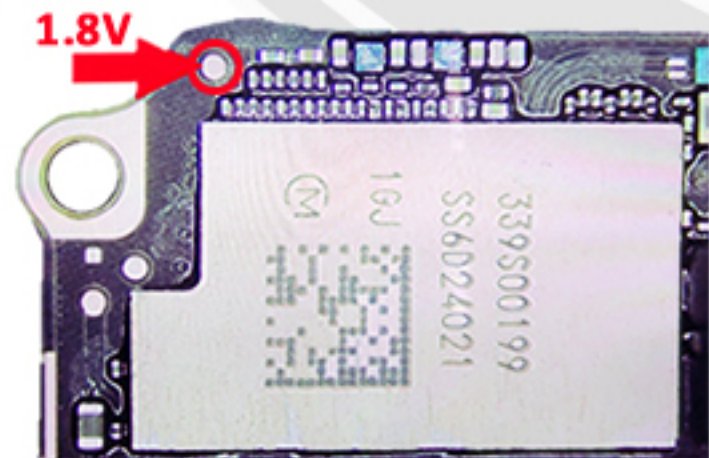


Board- Top Side

U1500 NAND

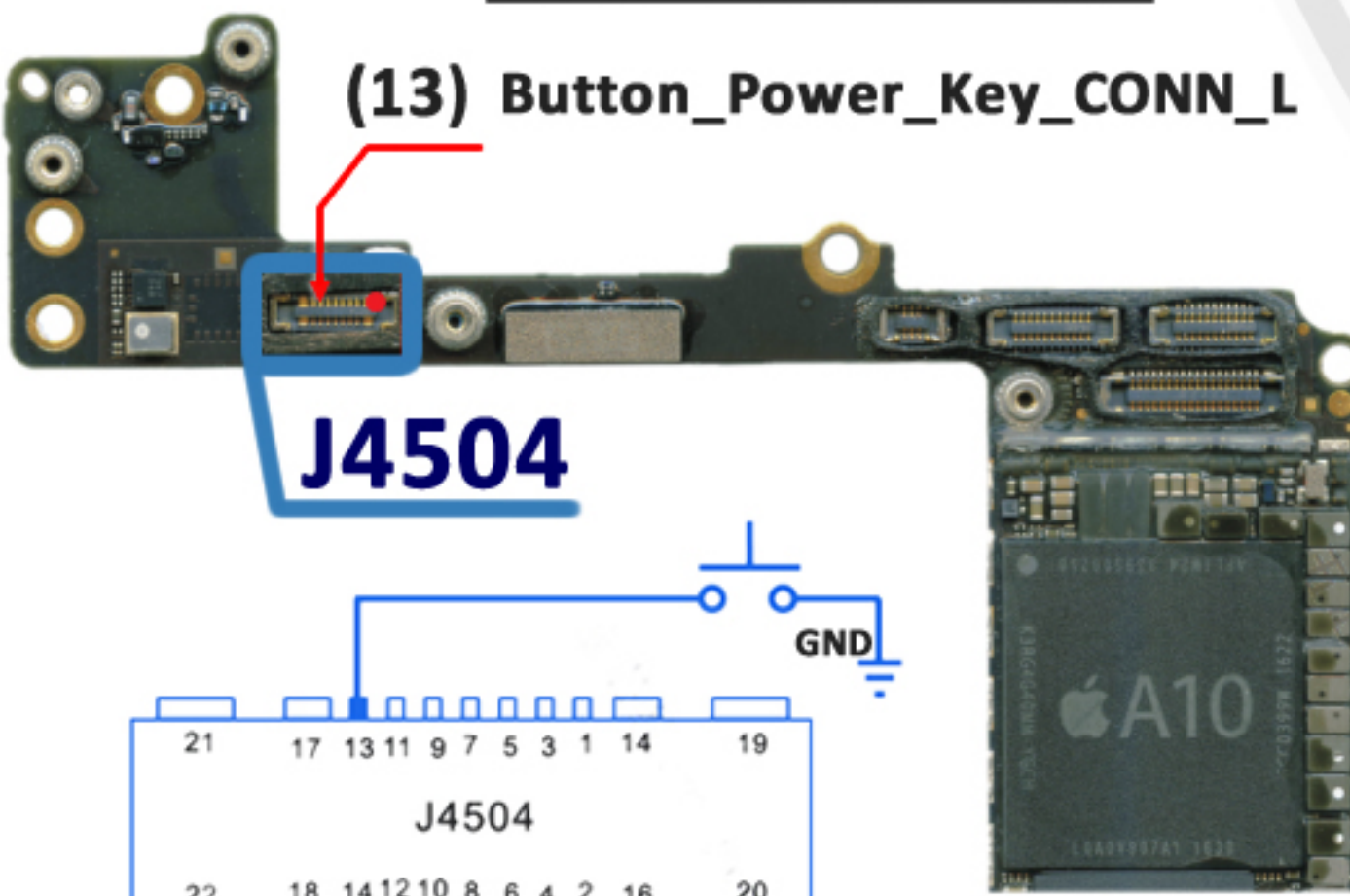
CPU_BB

Force DFU (TP0414)



Board-Bottom Side

U0600 CPU_AP



APN 820-00229-A

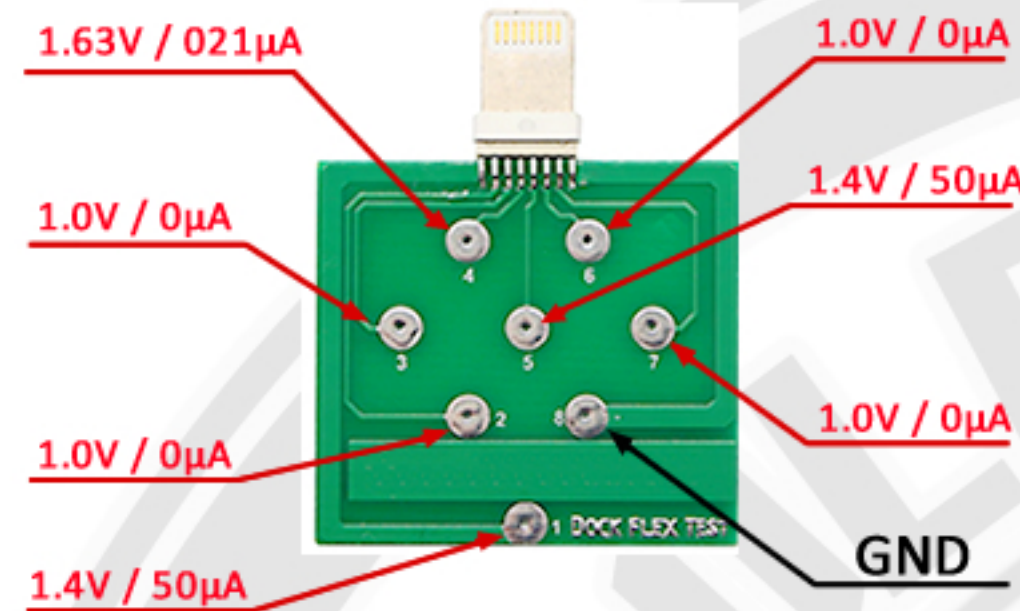
VCORE - IPHONE 7 PLUS (Qualcomm)

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA
 Calibração = 4.00V / 2.85mA
 25C°
 Ω
 400Ω

Comparador SMB

Batt VCC - TP0415	= 1.96V - 0.30mA
VCC Main - TP0408	= 1.94V - 0.28mA
PP_5V0_USB - TP0421	= 1.63V - 002mA
BL_CAT1 - TP0409	= 1.63V - 001mA
BL34_CAT1 - TP0417	= 1.63V - 001mA
BL_CAT2 - TP0410	= 1.63V - 001mA
BL34_CAT2 - TP0419	= 1.63V - 001mA
BL_Anode - TP0411	= 1.51V - 000mA
BL34_Anode - TP0418	= 1.51V - 000mA
PP16V0_Mesa - TP0401	= 0.33V - 000mA
Force_DFU - TP0414	= 2.47V - 0.89mA

Tristar Checker



VOLTÍMETRO (DC 20V)

PP_CPU_VAR - C1401/C1461 - (0.625V ~ 1.6V) -TP1402
 PP_GPU_VAR - C1448/C1432 - (0.67V ~ 1.03V) -TP1401
 PP_SOC_VAR - C1403/C1465 (0.8V)

PP_CPU_SRAM_VAR - C1407 - (0.8V ~ 1.06V)
 PP_GPU_SRAM_VAR - C1439 - (0.8V ~ 1.03V)

PP0V9_SOC_FIXED - C1502/C1501 - (0.9V)
 PP1V1 - C1506 - (1.06V ~ 1.17V)

PP1V1_SDRAM - C1515 - (1.06V ~ 1.17V)
 PP1V8_SDRAM - C1615/C1601 (1.8V)

PP1V8 - C1602 - (1.8V)
 PP1V2_VREF - C1611 - (1.2V)

PP1V2_SOC - (1.2V) - C1013

PP0V9_NAND - C1704 - (0.9V)

PP1V8 - C1701/C1710 - (1.8V)
 NAND VREF_ENTRE C1724 E C1725

PP3V0_NAND - C1748/C1736 - (3.0V)

PP_1V0_SMPS5 (MSM CORE) - C5701_RF (1.0V)
 BBPMU_TO_PMU_AMUX (MSM MODEM) C5702_RF (0.9V)

PP_1V2_LDO2 - C5742_RF - (1.2V)
 PP_1V8_LDO6 - C5608_RF/C5704_RF/C5745_RF (1.8V) VDD_DDR_CORE

PP_1V7_LDO5 - C5751_RF (1.7V)
 PP_1V5_LDO1 - C5748_RF (1.5V)

PP_0V95_LDO4 - C5753_RF (0.95)
 PP_1V8_LDO7 - C5749RF (1.8V)

PP_1V8_LDO8 - C5738_RF (1.8)
 PP_3V075_LDO10 - C5743_RF (3.075V)

PP_1V0_LDO9 - C5630_RF/C5703_RF - (1.0V)
 PP_1V225_SMPS2 - C5631_RF/C5615_RF (1.225V)

SMB® TÉCNICA 1: 3.98V / 2.83mA 10Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA 8.4Ω
 SMB® TÉCNICA 1: 3.98V / 2.83mA 9.3Ω

SMB® TÉCNICA 1: 3.20V / 1.80mA 91.4Ω
 SMB® TÉCNICA 1: 3.45V / 2.12mA 135.5Ω

SMB® TÉCNICA 1: 3.92V / 2.76mA 30.7Ω
 SMB® TÉCNICA 1: 3.58V / 2.29mA 37.1Ω

SMB® TÉCNICA 1: 3.65V / 2.35mA 321.5Ω
 SMB® TÉCNICA 1: 2.68V / 1.14mA OL

SMB® TÉCNICA 1: 3.02V / 1.57mA OL
 SMB® TÉCNICA 1: 2.04V / 0.40mA OL

SMB® TÉCNICA 1: 2.40V / 0.86mA OL

SMB® TÉCNICA 1: 3.39V / 2.02mA OL

SMB® TÉCNICA 1: 3.02V / 1.54mA OL
 SMB® TÉCNICA 1: 2.68V / 1.16mA OL

SMB® TÉCNICA 1: 3.05V / 1.62mA OL

SMB® TÉCNICA 1: 3.37V / 2.04mA 255.8Ω
 SMB® TÉCNICA 1: 3.84V / 2.63mA 128.5Ω

SMB® TÉCNICA 1: 2.74V / 1.23mA OL
 SMB® TÉCNICA 1: 3.06V / 1.64mA OL

SMB® TÉCNICA 1: 3.13V / 1.73mA OL
 SMB® TÉCNICA 1: 2.78V / 1.28mA OL

SMB® TÉCNICA 1: 3.56V / 2.27mA OL
 SMB® TÉCNICA 1: 2.67V / 1.14mA OL

SMB® TÉCNICA 1: 2.67V / 1.72mA OL
 SMB® TÉCNICA 1: 3.13V / 1.73mA OL

SMB® TÉCNICA 1: 3.19V / 1.80mA OL
 SMB® TÉCNICA 1: 1.80V / 0.12mA OL

VDD_IC's

U0600
CPU_AP

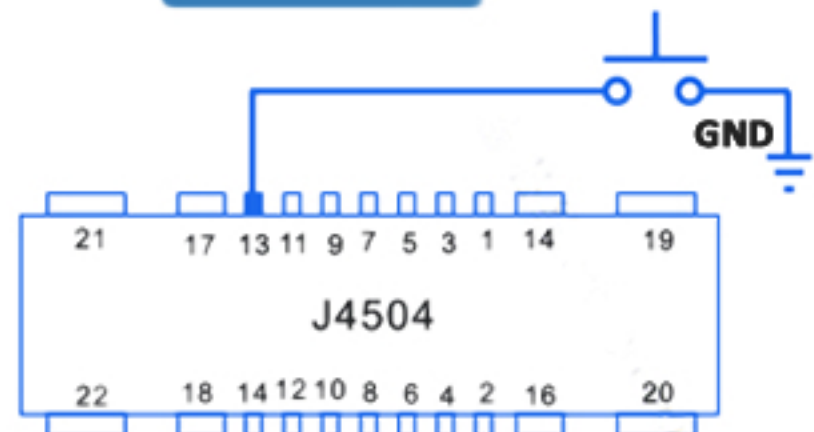
U1500
NAND

CPU_BB

POWER FPC - GND

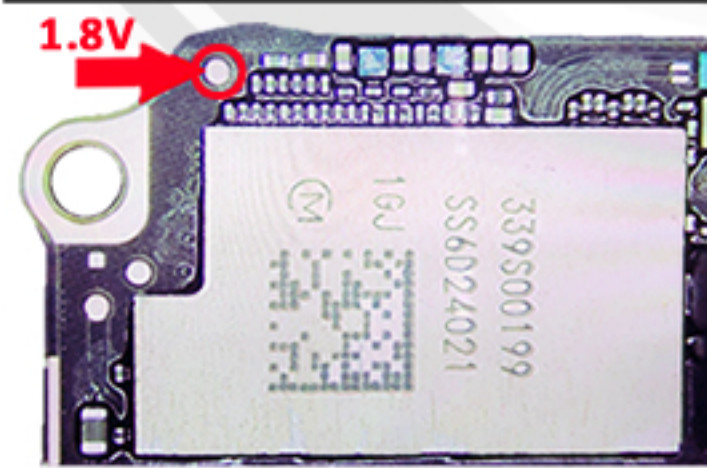
(13) Button_Power_Key_CONN_L

J4504

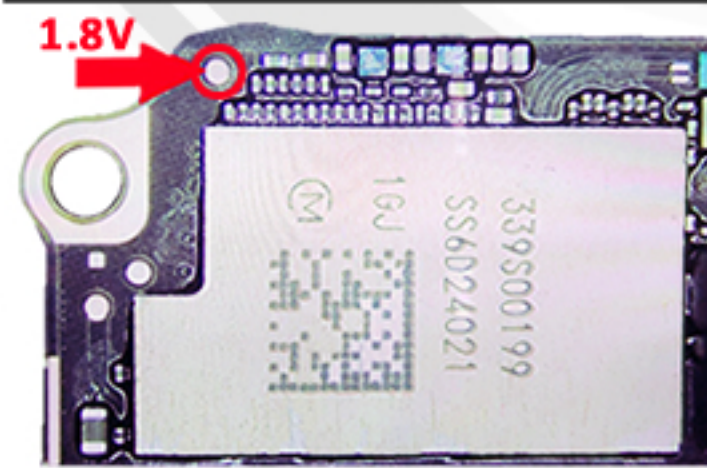
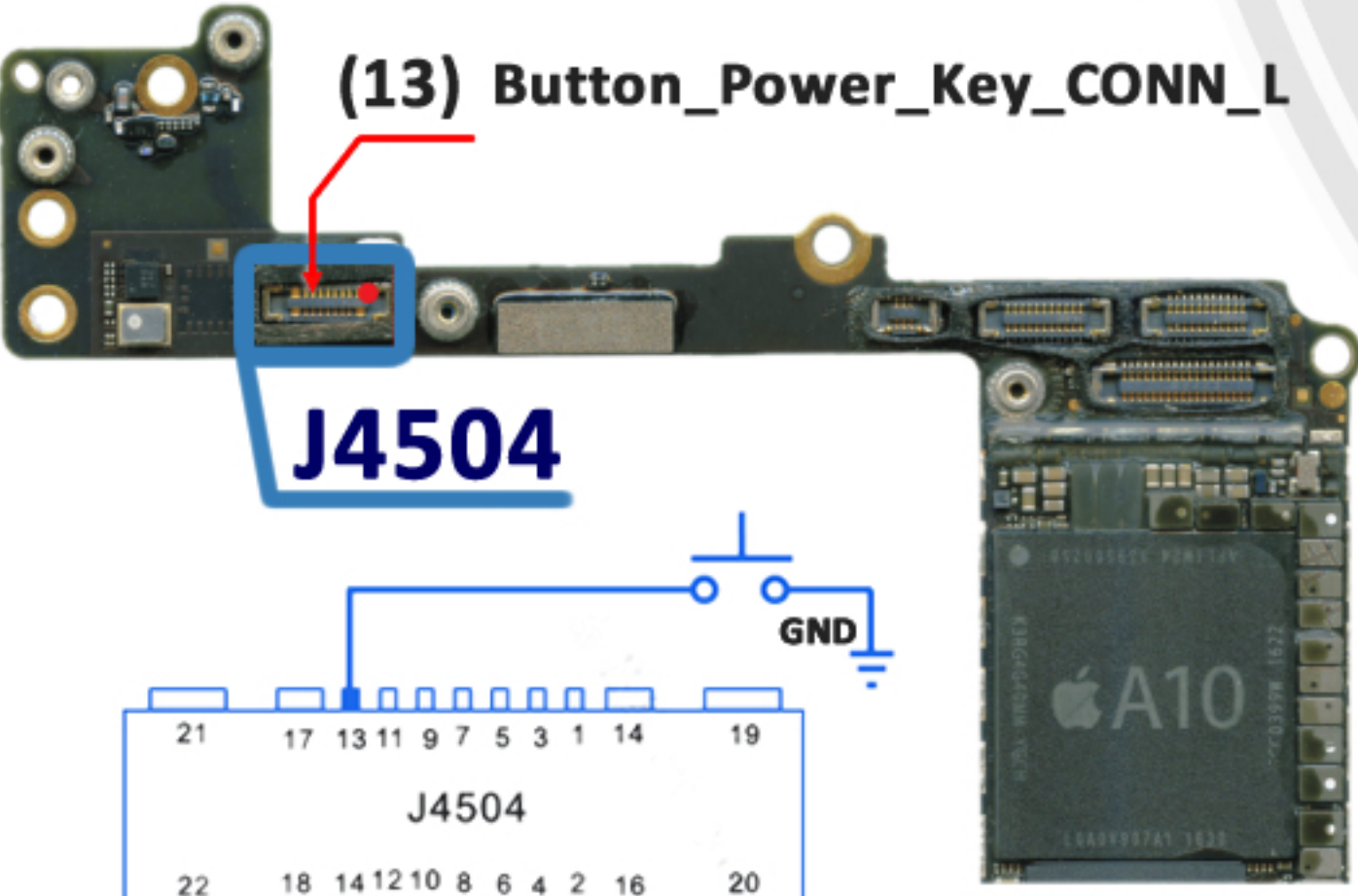


Board- Top Side

Force DFU (TP0414)



Board-Bottom Side

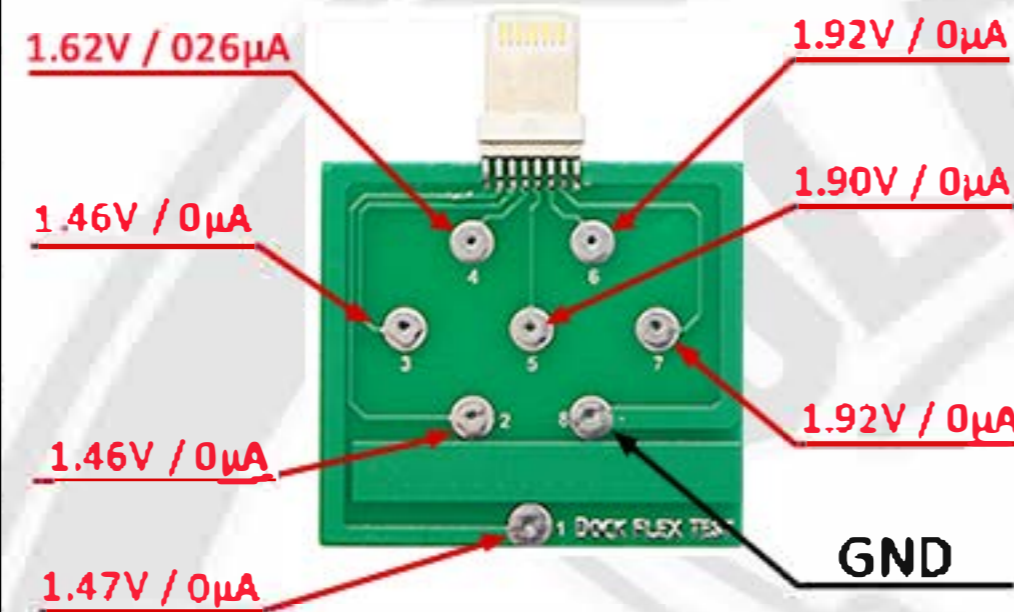


VCORE - IPHONE 8 (INTEL)

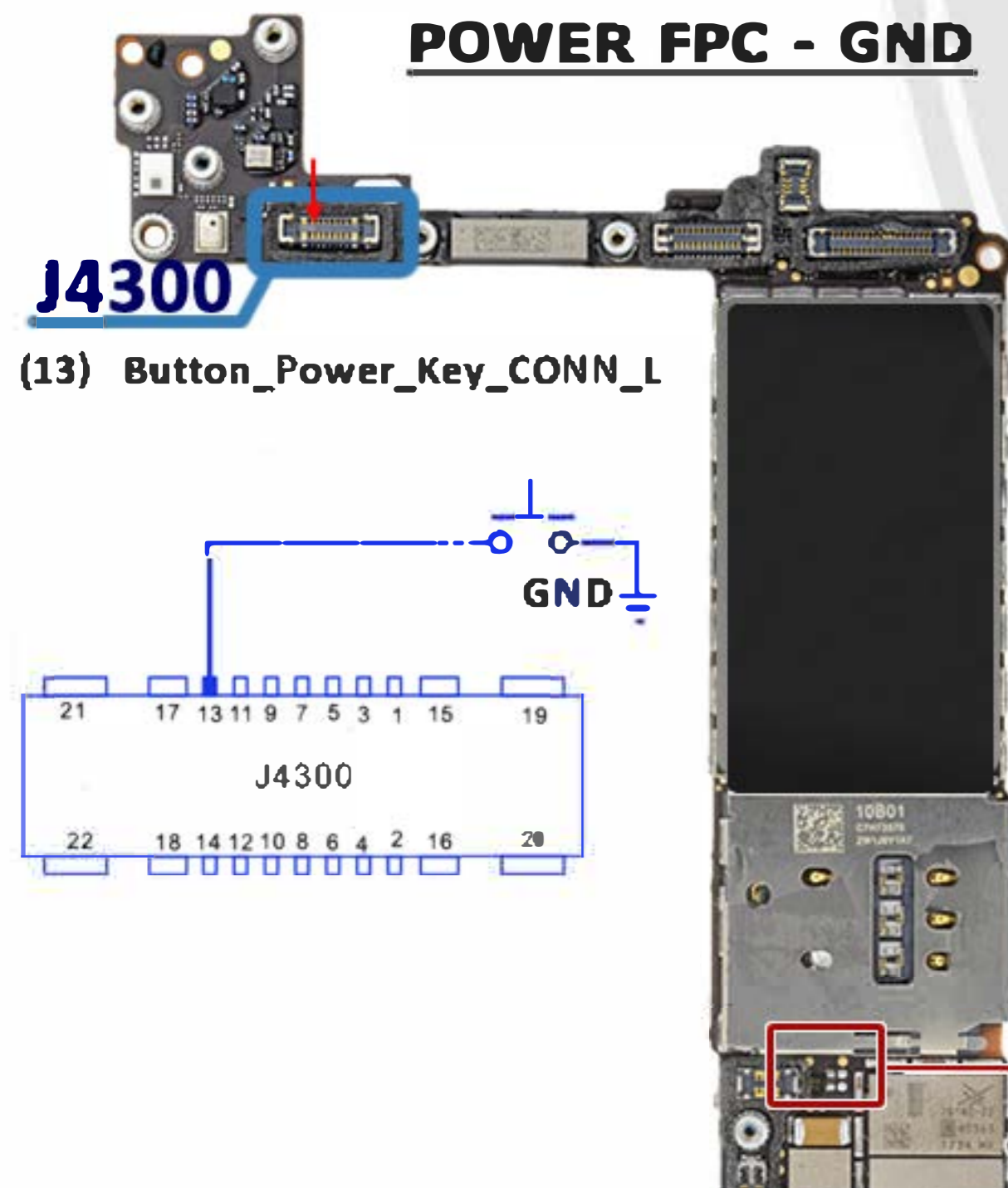
SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | 25Cº
 Calibração = 4.00V / 2.84mA | Ω 400Ω

Comparador	
Batt vcc	= 2.63V - 1.09mA
VCC Main	= 2.63V - 1.09mA
VBUS1_E75	= 1.66V - 0.02mA
CAT1 - BL34	= 1.65V - 0.02mA
CAT2 - BL12	= 1.65V - 0.02mA
Anodo - BL34	= 1.52V - 000mA
PP16V0_Mesa	= 1.40V - 000mA

Hydra Checker (SMB)



VDD_IC's



U1000
CPU_AP

U2600
NAND
VLGA

PMB9948
CPU_BB
INTEL

Force DFU (TP0514)



VOLTÍMETRO (DC 20V)

PP_CPU_PCORE - C1702 - (0.575V ~ 1.06V) PP_CPU_SRAM - C1772 - (0.73V ~ 1.01V)	SMB® TÉCNICA II: 3,99V / 2.83mA SMB® TÉCNICA II: 3,36V / 2.02mA	18.5Ω 154Ω
PP_GPU - C1731 - (0.575V ~ 1.06V) PP_GPU_SRAM - C1781 - (0.675V ~ 1.06V)	SMB® TÉCNICA II: 4,00V / 2.85mA SMB® TÉCNICA II: 3,36V / 2.02mA	5.5Ω 342Ω
PPOV7_VDD_LOW_S2 - C1750 - (0.7V) PP_SOC_S1 - C1760 - (0.635V ~ 0.765V)	SMB® TÉCNICA II: 3,25V / 1.88mA SMB® TÉCNICA II: 3,97V / 2.81mA	OL 35Ω
PP_CPU_ECORE - C1794 - (0.575V ~ 1.06V) PPOV8_SOC_FIXED_S1 - C1802 (0.8V)	SMB® TÉCNICA II: 3,96V / 2.78mA SMB® TÉCNICA II: 3,91V / 2.73mA	48.5Ω 89Ω
PP1V2_SOC - C1720 - (1.2V) PP1V8_S2 - C1842 - (1.8V)	SMB® TÉCNICA II: 2,24V / 0.62mA SMB® TÉCNICA II: 3,40V / 2.06mA	OL OL
PP1V1_SOC - C1853 - (1.1V) PP1V8_SOC - C1810 - (1.8V)	SMB® TÉCNICA II: 3,78V / 2.54mA SMB® TÉCNICA II: 2,99V / 1.54mA	425.5Ω OL
PP3V0_NAND - C2613 - (3.0V)	SMB® TÉCNICA II: 2,67V / 1.15mA	OL
PPOV9_NAND - C2602 - (0.9V)	SMB® TÉCNICA II: 3,22V / 1.85mA	OL
PP1V8IO_C2641 - (1.8V)	SMB® TÉCNICA II: 2,98V / 1.55mA	OL
VDD_BBPMU_3V3_K - C522_K (3.3V)	SMB® TÉCNICA II: 2,63V / 1.09mA	OL
VDD_CORE_1V0_K - C515_K (1.0V) IDENIFICAR COMPONENTE SEGUINDO A TRILHA	SMB® TÉCNICA II: 3,41V / 2.07mA	OL
VDD_IO_1V2_K - C402_K (1.2V) IDENIFICAR COMPONENTE SEGUINDO A TRILHA	SMB® TÉCNICA II: 3,15V / 1.72mA	OL
VDD_DDR_1V8_K - C406_K (1.8V)	SMB® TÉCNICA II: 3,20V / 1.80mA	OL
PP_1V8_S2 - C4811 (1.8V)	SMB® TÉCNICA II: 3,40V / 2.07mA	OL

APN 820-00871A

VCORE - IPHONE 8 (QUALCOMM)

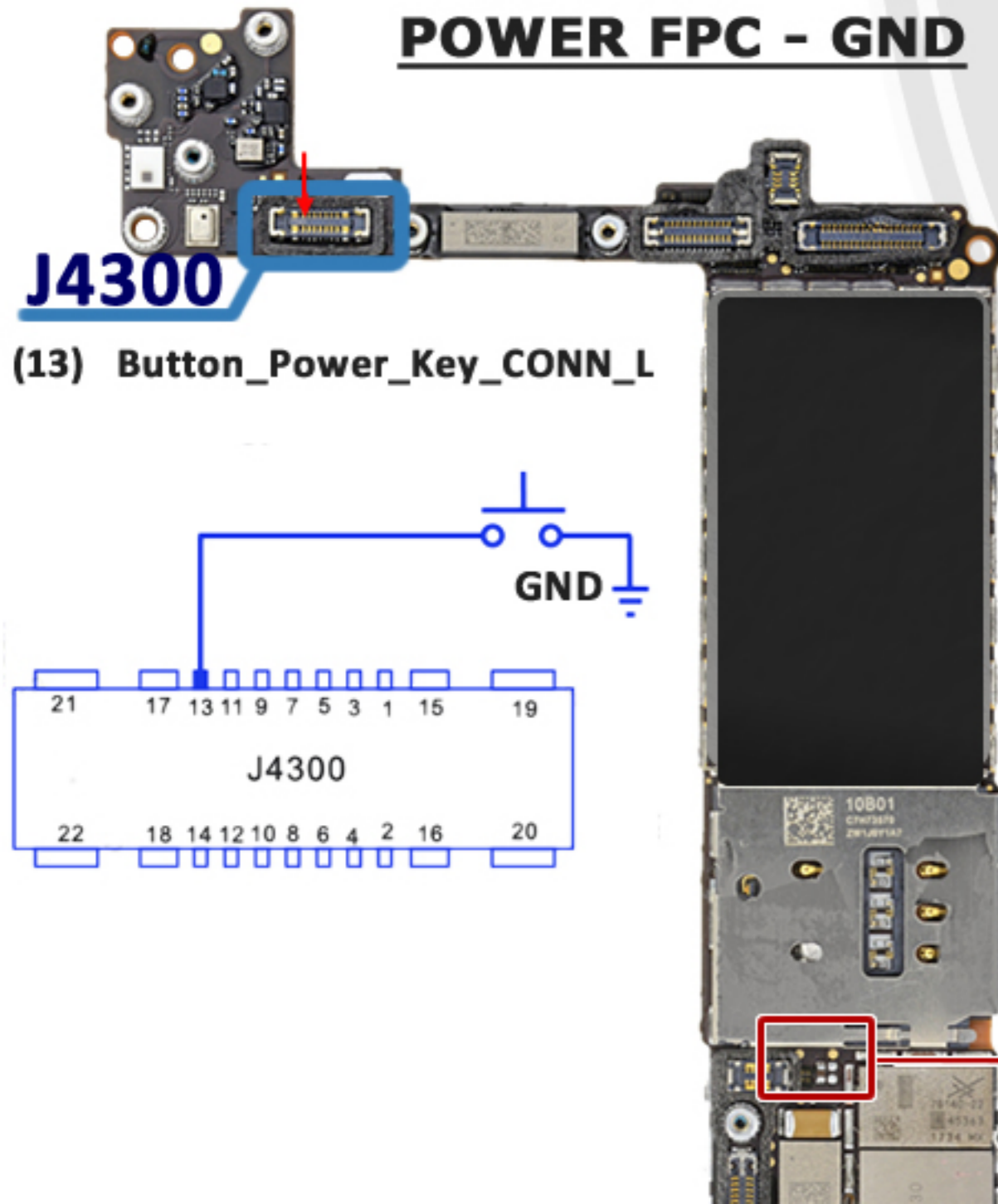
SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | 25C°
 Calibração = 4.00V / 2.84mA | Ω 400Ω

Comparador

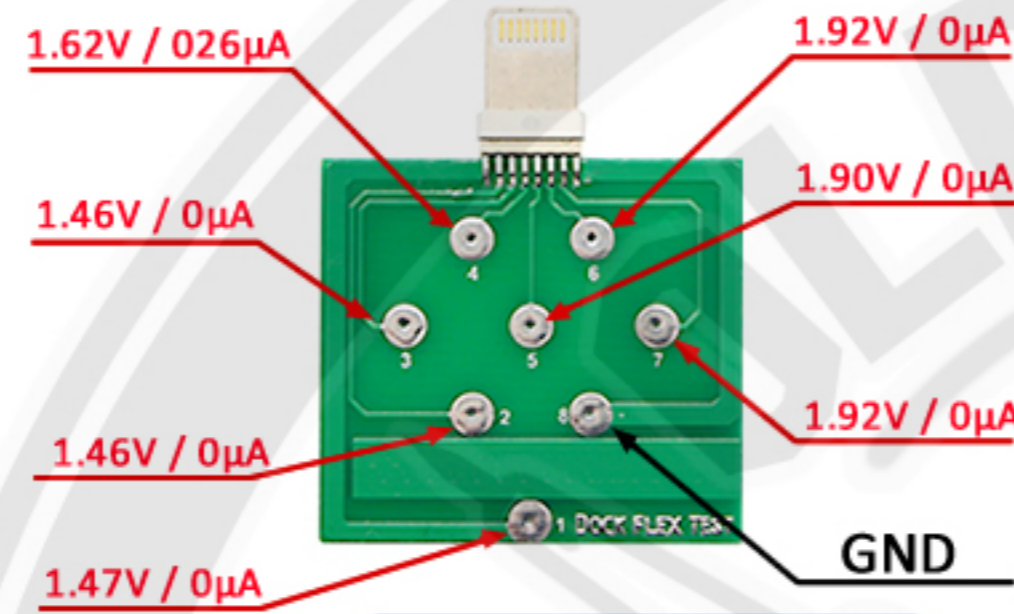
Batt vcc	= 2.65V - 1.12mA
VCC Main	= 2.65V - 1.12mA
VBUS1_E75	= 1.65V - 0.02mA
CAT1 - BL34	= 1.63V - 0.01mA
CAT2 - BL12	= 1.63V - 0.01mA
Anodo - BL34	= 1.50V - 000mA
PP16V0_Mesa	= 1.40V - 000mA

VDD_IC's

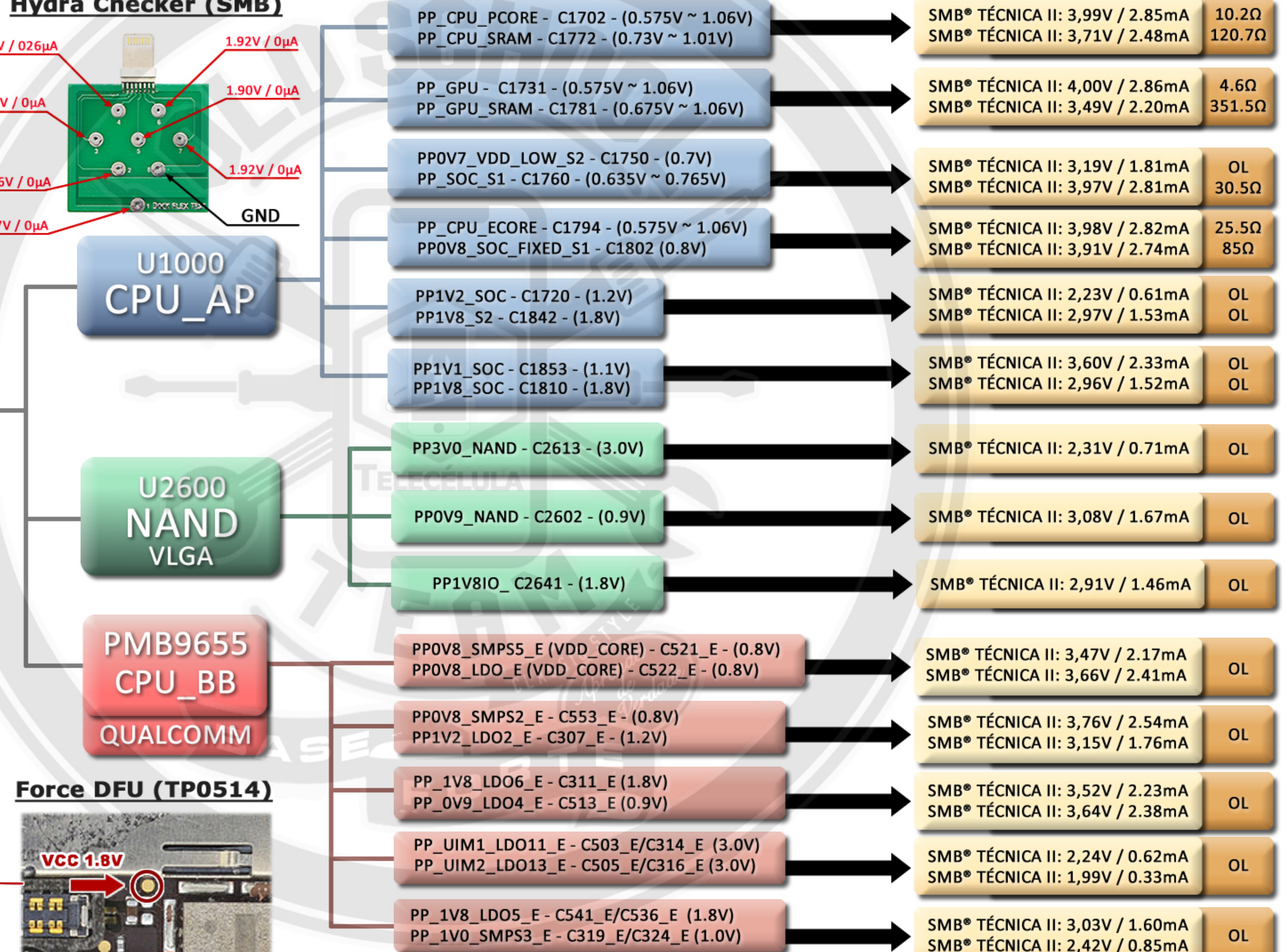
POWER FPC - GND



Hydra Checker (SMB)



VOLTÍMETRO (DC 20V)



Force DFU (TP0514)



APN 820-00847A

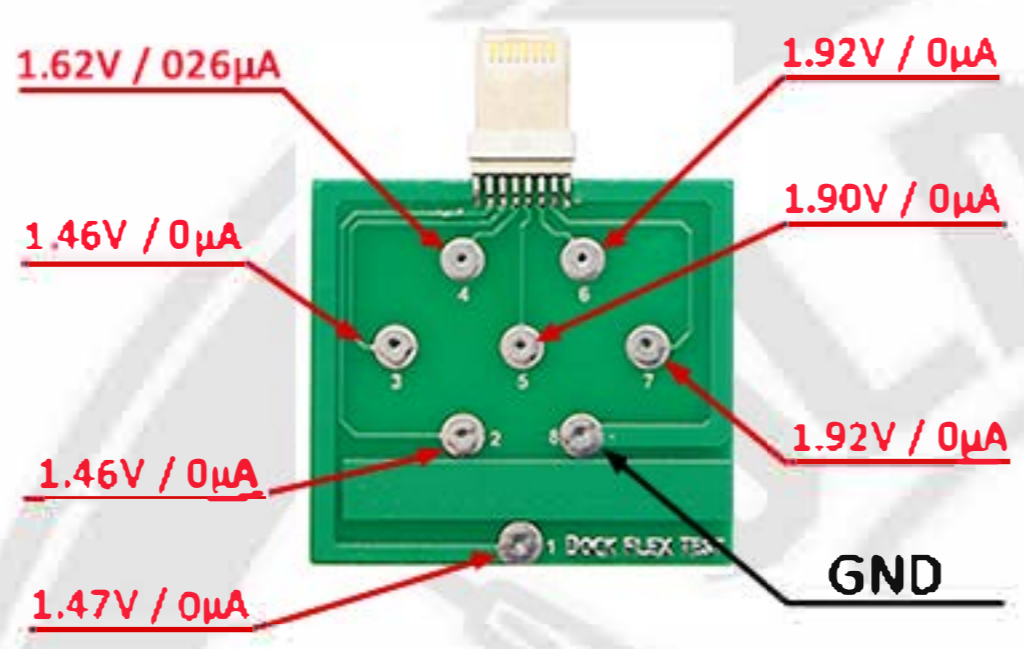
VCORE - IPHONE 8 PLUS (INTEL)

Comparador SMB

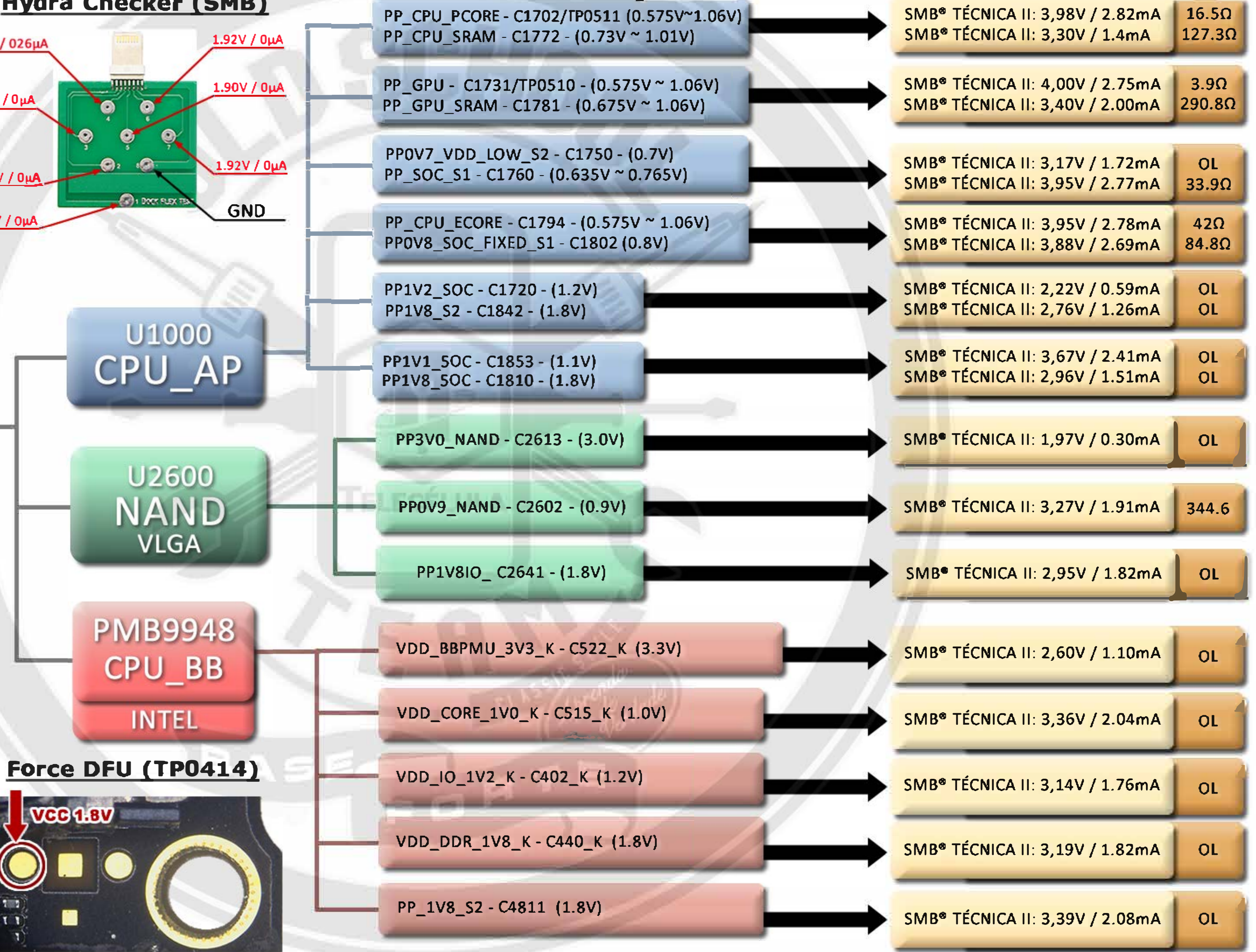
Batt vcc - TP0522	= 2.66V - 1.15mA
VDD Main - TP0528	= 2.66V - 1.15mA
VBUS1_E75 - TP0527	= 1.64V - 0.01mA
CAT1 - BL34 - TP0534	= 1.62V - 0.01mA
CAT2 - BL12 - TP0530	= 1.62V - 0.01mA
Anodo - BL34 - TP0535	= 1.51V - 0.00mA
Anodo - BL12 - TP0532	= 1.62V - 0.01mA
PP16V0_Mesa - TP0501	= 1.42V - 0.00mA

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | 25Cº
 Calibração = 4.00V / 2.87mA | 400Ω

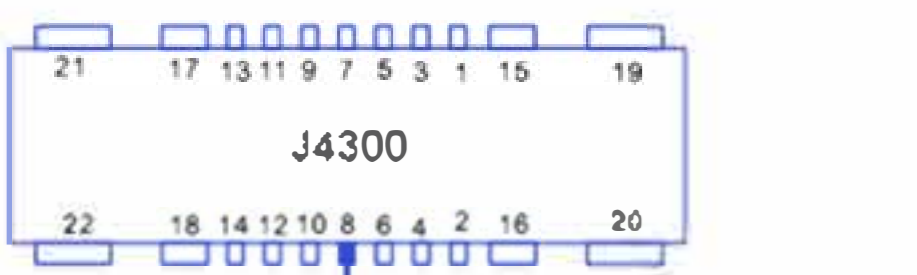
Hydra Checker (SMB)



VOLTÍMETRO (DC 20V)



VDD_IC's



Force DFU (TP0414)



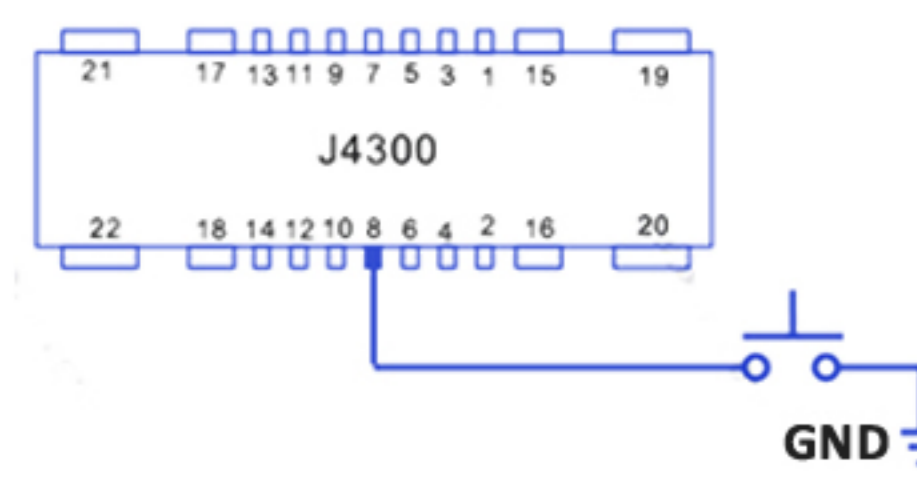
Comparador SMB

Batt vcc - TP0522	= 2.66V - 1.15mA
VDD Main - TP0528	= 2.66V - 1.15mA
VBUS1_E75 - TP0527	= 1.64V - 001mA
CAT1 - BL34 - TP0534	= 1.62V - 001mA
CAT2 - BL12 - TP0530	= 1.62V - 001mA
Anodo - BL34 - TP0535	= 1.51V - 000mA
Anodo - BL12 - TP0532	= 1.62V - 001mA
PP16V0_Mesa - TP0501	= 1.42V - 000mA

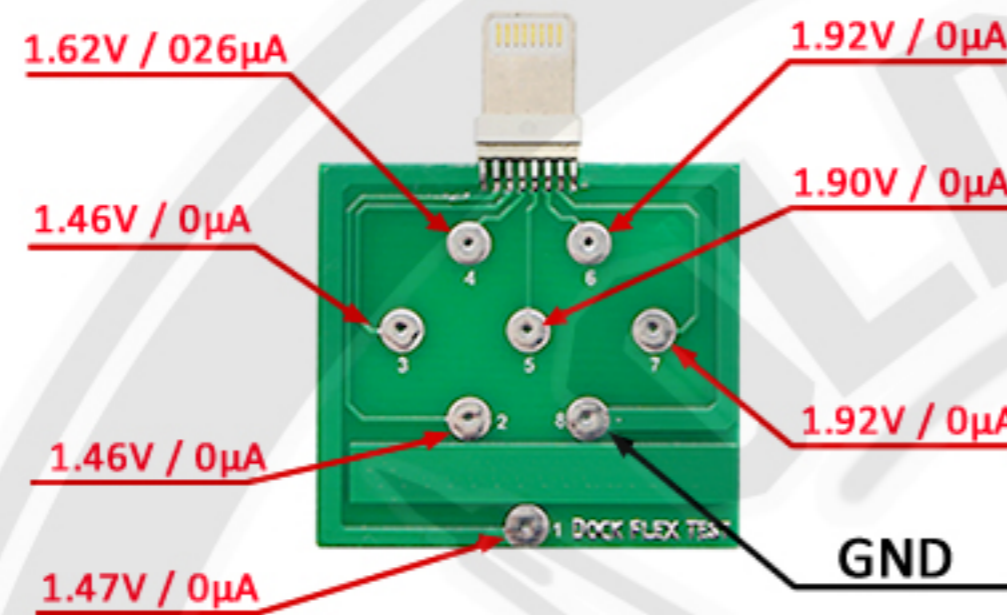
VDD_IC's



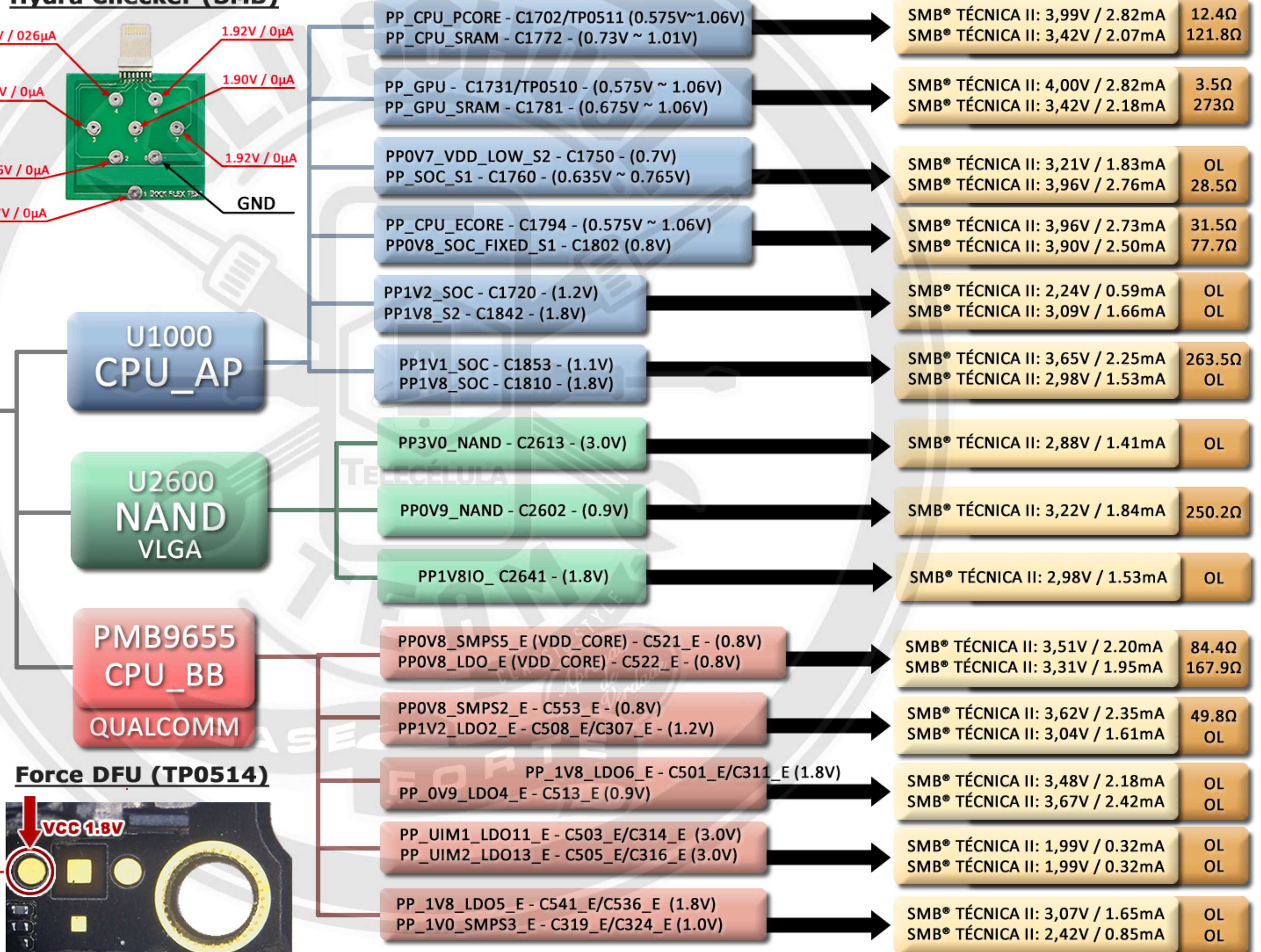
(8) Button_Power_Key_CONN_L



Hydra Checker (SMB)



VOLTÍMETRO (DC 20V)



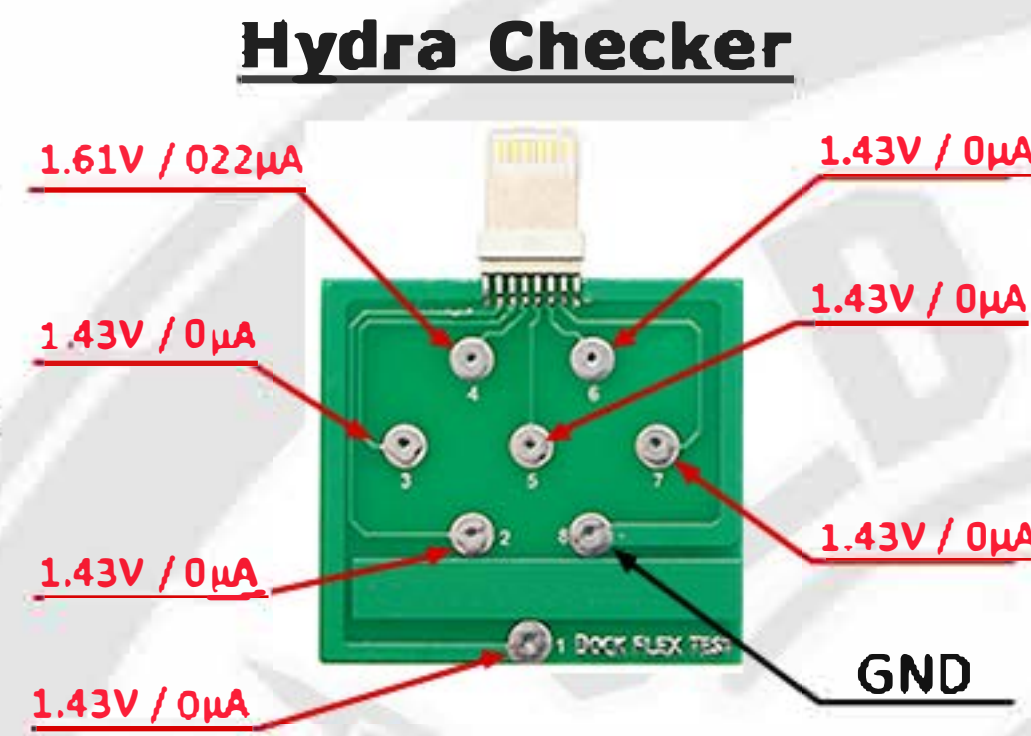
SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | 25Cº
 Calibração = 4.01V / 2.85mA | Ω 400Ω

VCORE - IPHONE X - INTEL

820-00863-A - AT&T

Comparador Core	
Batt vcc	= 1.95V - 028mA
VDD Main - C2850	= 1.95V - 0.27mA
VBUS1 E75	= 1.66V - 002mA
PP_VDD_BOOST- C3110	= 1.57V - 001mA

SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA | Resistência 400Ω
 Calibração = 4.01V / 2.86mA

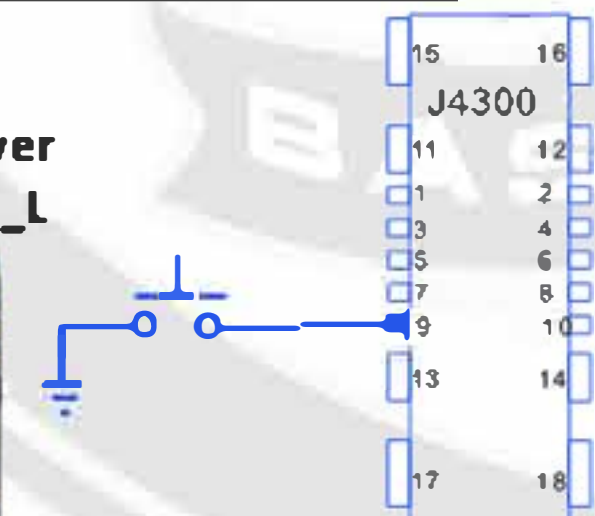
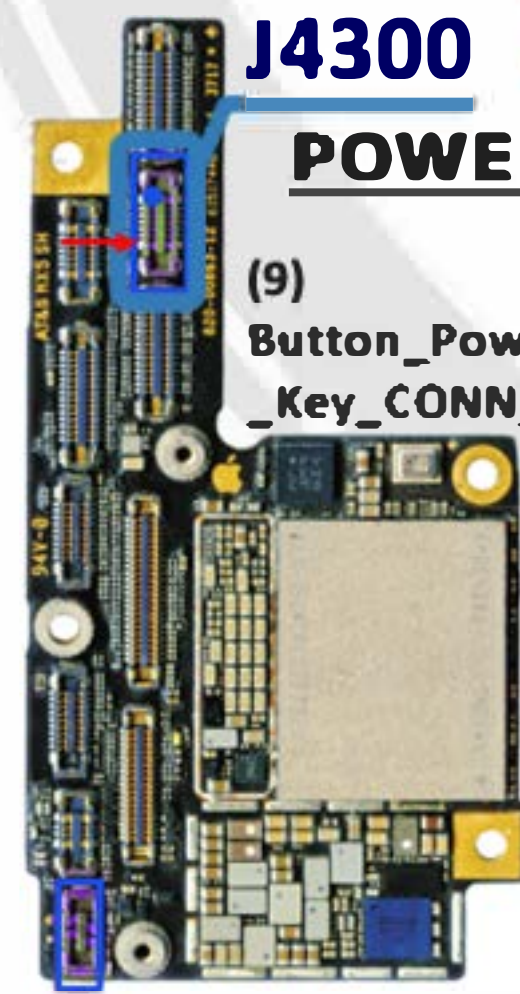
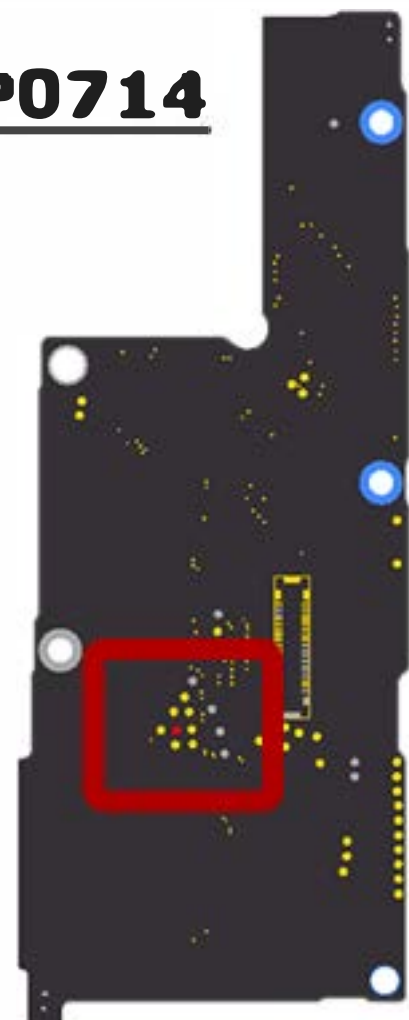
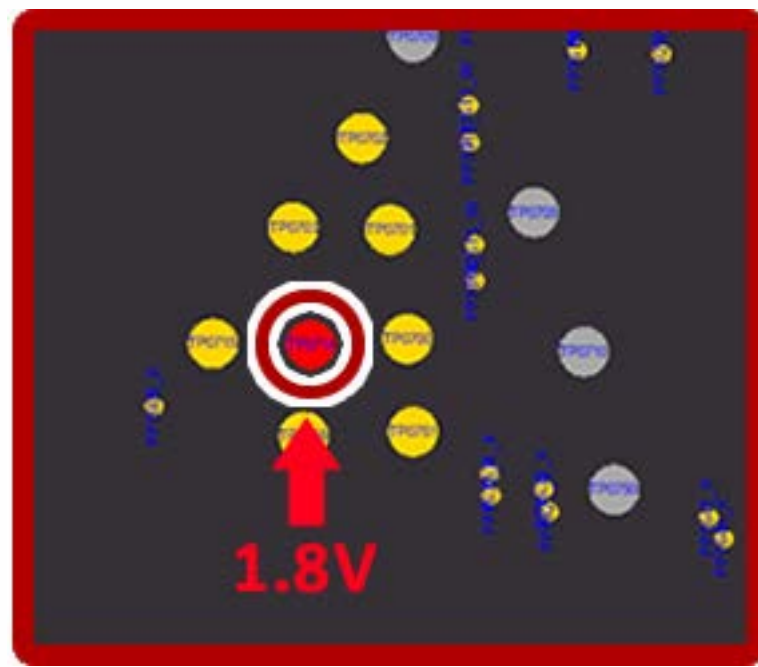


VDD_IC's BOARD CORE

VDD_IC's BOARD RF

LEITURAS EFETUADAS EM BOARDS SEPARADAS

FORCE DFU - TP0714



J3200 电池接口 GND BATTVCC
 Battery connector

U1000 CPU_AP

U2600 NAND

U_BB_k CPU_BB
PMB_9948

VOLTÍMETRO (DC_20V)

PP_CPU_PCORE - C1702 - (0.575V ~ 1.06V)
 PP_CPU_SRAM - C2772 - (0.735V ~ 1.01v)

PP_GPU - C1730 - (0.53V ~ 1.06V)
 PPOV7_VDD_LOW_2 - C1750 - (0.7V)
 PP_GPU_SDRAM - C1781 - (0.675V ~ 1.06V)

PP_CPU_ECORE - C1794 - (0.575V ~ 1.06V)
 PPOV8_SOC_FIXEDS2 - C1801/C1802 - (0.8V)
 PP1V2_SOC - C1723 - (1.2V)

PP_SOC_S1 - C1761 - (0.635V ~ 0.765V)
 PP1V8IO - C1810 - (1.8V)

PP1V8_SOC_S2 - C1840 - (1.8V)
 PP1V1_S2 - C1850 - (1.1V)

PP3V0_NAND - C2651 - (3.0V)

PPOV9_NAND - C2602 - (0.9V)

PP1V8_IO_C2629/C2630 - (1.8V)

VDD_CORE_1V0_K - C413_K/C416_K/C420_K - (1.0V)
 PP1V8_S2 - C426_K/C412_K (1.8V)

VDD_USB_3V15_K - C435_K (3.15V)
 VDD_VREFCP_K - R401_K (0.6V)

VDD_SIM1_K - C400_K (0.0V)
 VDD_SIM2_K - C441_K (0.0V)

VDD_DDR_1V8_K - C433_K (1.8V)
 VDD_IO_1V2_K - C437_K (1.2V)

VDD_BBPMU_3V3_K - C522_K
 VFE_AUX_3V1_K - C520_K

SMB® TÉCNICA II: 3,99V / 2.82mA 14.6Ω
 SMB® TÉCNICA II: 3,43V / 2.11mA 125.7Ω

SMB® TÉCNICA II: 4,00V / 2.84mA 5.6Ω
 SMB® TÉCNICA II: 3,19V / 1.80mA OL
 SMB® TÉCNICA II: 3,40V / 2.06mA OL

SMB® TÉCNICA II: 3,96V / 2.79mA 38.1Ω
 SMB® TÉCNICA II: 3,83V / 2.62mA 88.3Ω
 SMB® TÉCNICA II: 2,93V / 1.48mA OL

SMB® TÉCNICA II: 3,98V / 2.81mA 36Ω
 SMB® TÉCNICA II: 2,93V / 1.48mA OL

SMB® TÉCNICA II: 2,79V / 1.30mA OL
 SMB® TÉCNICA II: 3,80V / 2.59mA 317.9Ω

SMB® TÉCNICA II: 2,87V / 1.40mA OL

SMB® TÉCNICA II: 3,24V / 1.86mA 281Ω

SMB® TÉCNICA II: 2,93V / 1.48mA OL

SMB® TÉCNICA II: 3,40V / 2.07mA OL
 SMB® TÉCNICA II: 1,90V / 0.22mA OL

SMB® TÉCNICA II: 2,37V / 0.77mA OL
 SMB® TÉCNICA II: 1,88V / 0.20mA OL

SMB® TÉCNICA II: 1,64V / 001mA OL
 SMB® TÉCNICA II: 1,64V / 001mA OL

SMB® TÉCNICA II: 3,17V / 1.78mA OL
 SMB® TÉCNICA II: 3,14V / 1.74mA OL

SMB® TÉCNICA II: 2,58V / 1.04mA OL
 SMB® TÉCNICA II: 2,37V / 0.77mA OL

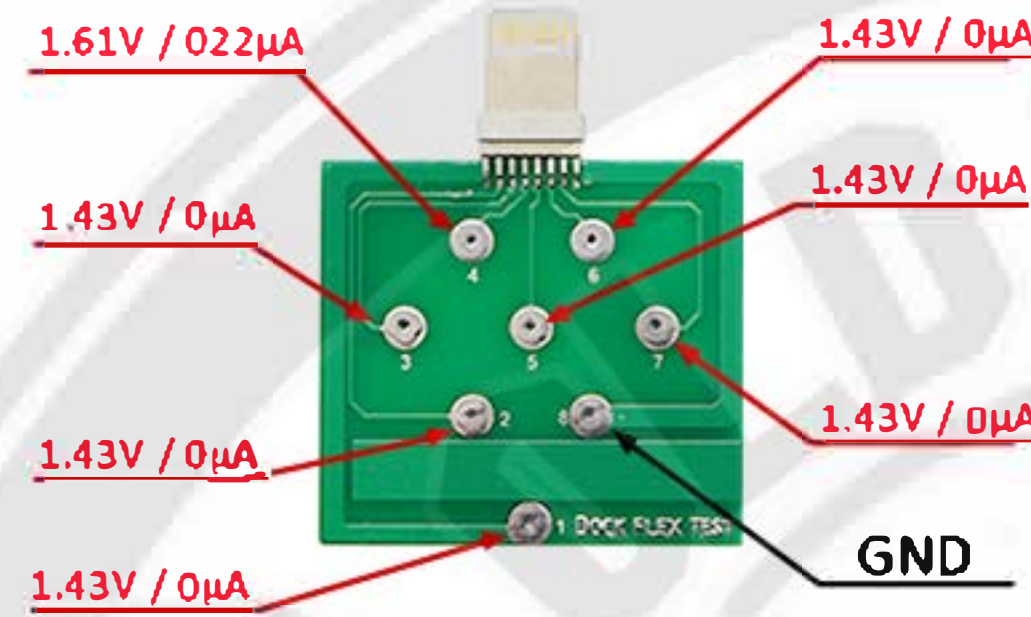
VCORE - IPHONE X - QUALCOMM

820-00864-A

Comparador Core

Batt vcc	= 1.97V - 029mA
VDD Main	= 1.97V - 0.29mA
VBUS1 E75	= 1.66V - 002mA
VDD_BOOST	= 1.62V - 001mA

VDD_IC's
BOARD CORE



U1000
CPU_AP

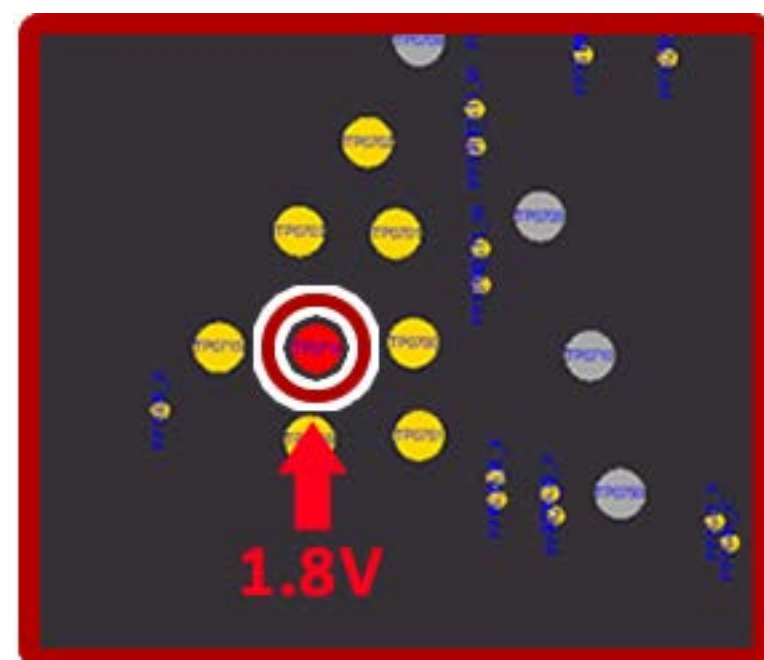
U2600
NAND

U_BB_E
CPU_BB
MDM_9655

LEITURAS EFETUADAS EM BOARDS SEPARADAS

VDD_IC's
BOARD RF

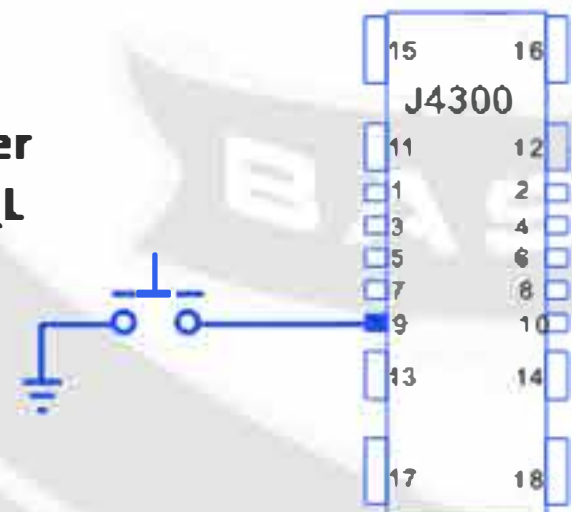
FORCE DFU - TP0714



J4300

POWER FPC - GND

(9)
Button_Power
Key_CONN_L



J3200
Battery connector
GND BATTVCC

VOLTÍMETRO (DC_20V)

PP_CPU_PCORE - C1702 / C2702 - (0.575V ~ 1.06V)
PP_CPU_SRAM - C2772 - (0.735V ~ 1.01V)

PP_GPU - C1730 - (0.53V ~ 1.06V)
PPOV7_VDD_LOW_2 - C1750 - (0.7V)
PP_GPU_SDRAM - C1781 - (0.675V ~ 1.06V)

PP_CPU_ECORE - C1794 / C2813 - (0.575V ~ 1.06V)
PPOV8_SOC_FIXEDS2 - C1801/C1802/C2751 - (0.8V)
PP1V2_SOC - C1723/C1391 - (1.2V)

PP_SOC_S1 - C1761 - (0.635V ~ 0.765V)
PP1V8IO - C1810 - (1.8V)

PP1V8_SOC_S2 - C1840 - (1.8V)
PP1V1_S2 - C1850 - (1.1V)

PP3V0_NAND - C2651 - (3.0V)

PPOV9_NAND - C2602 - (0.9V)

PP1V8_IO_C2629/C2630 - (1.8V)

LDO2_PP1V2 - C307_E - (1.2V)
LDO4_PPOV9 - C309_E - (0.9V)

LDO5_PP1V8 - C310_E - (1.8V)
LDO6_PP1V8 - C311_E - (1.8V)

LDO9_PPOV8 - C313_E - (0.8V)
LDO10_PP3V0 - C535_E - (3.0V)

SMPS_1 - C322_E (PPOV8)
SMPS_5 - C326_E (PPOV8)

LDO11 - C503_E
LDO13 - C505_E

SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA
Calibração = 4.02V / 2.88mA
Resistência 200Ω

SMB® TÉCNICA II: 4,00V / 2.84mA 13.6Ω
SMB® TÉCNICA II: 3,41V / 2.08mA 199Ω

SMB® TÉCNICA II: 4,02V / 2.87mA 3.2Ω
SMB® TÉCNICA II: 3,18V / 1.78mA OL
SMB® TÉCNICA II: 3,41V / 2.08mA OL

SMB® TÉCNICA II: 3,98V / 2.81mA 34.8Ω
SMB® TÉCNICA II: 3,90V / 2.71mA 125Ω
SMB® TÉCNICA II: 2,29V / 0.67mA OL

SMB® TÉCNICA II: 3,97V / 2.80mA 38.5Ω
SMB® TÉCNICA II: 2,92V / 1.46mA OL

SMB® TÉCNICA II: 2,73V / 1.22mA OL
SMB® TÉCNICA II: 2,67V / 1.14mA OL

SMB® TÉCNICA II: 2,88V / 1.41mA OL

SMB® TÉCNICA II: 3,19V / 1.80mA OL

SMB® TÉCNICA II: 2,92V / 1.46mA OL

SMB® TÉCNICA II: 3,06V / 1.63mA OL
SMB® TÉCNICA II: 3,57V / 2.29mA OL

SMB® TÉCNICA II: 3,55V / 2.27mA OL
SMB® TÉCNICA II: 3,47V / 2.16mA OL

SMB® TÉCNICA II: 3,68V / 2.43mA 175.5Ω
SMB® TÉCNICA II: 1,67V / 0.02mA OL

SMB® TÉCNICA II: 3,93V / 2.75mA 48.5Ω
SMB® TÉCNICA II: 3,90V / 2.71mA 73Ω

SMB® TÉCNICA II: 1,68V / 0.03mA OL
SMB® TÉCNICA II: 1,67V / 0.02mA OL

Comparador SMB

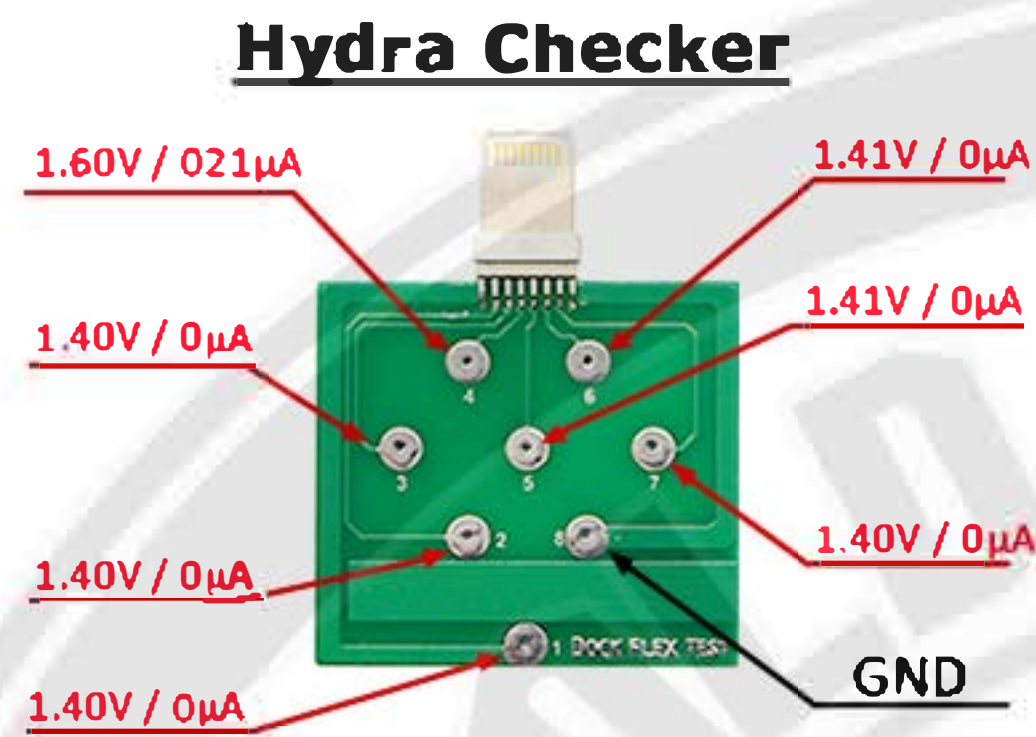
Batt VCC - TP0522	= 1.99V - 0.31mA
VCC Main YANGTZE - TP4045	= 1.90V - 0.21mA
VBUS1_E75 - TP0783	= 1.66V - 0.02mA
VDD_Main - TP0700	= 3.95V - 2.75mA
VDD Boost - C3114	= 2.37V - 0.76mA
BL12_CAT1 - TP0530	= 1.63V - 0.01mA
BL34_CAT1 - TP0533	= 1.64V - 0.01mA
BL12_CAT2 - TP0531	= 1.63V - 0.01mA
BL34_CAT2 - TP0534	= 1.64V - 0.01mA
BL12_Anode - TP0532	= 1.55V - 0.00mA
BL34_Anode - TP0539	= 1.55V - 0.00mA

APN 820-01209-A

VCORE - IPHONE XR (ZXW)

820-01209-10

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA
 Calibração = 4.01V / 2.83mA
 Resistência 400Ω



VOLTÍMETRO (DC_20V)

PP_CPU_PCORE - PP0507 - (0.575V ~ 1.06V)
 PP_CPU_SRAM - C2772 - (0.735V ~ 1.01V)

SMB® TÉCNICA II: 3,96V / 2.76mA 32.4Ω
 SMB® TÉCNICA II: 3,34V / 1.98mA 191.7Ω

PP_GPU - PP0506 - (0.53V ~ 1.06V)
 PPOV7_VDD_LOW_S2 - R1702 - (0.7V)
 PP_GPU_SRAM - C2781 - (0.675V ~ 1.06V)

SMB® TÉCNICA II: 3,98V / 2.79mA 14.4Ω
 SMB® TÉCNICA II: 3,19V / 1.79mA OL
 SMB® TÉCNICA II: 3,21V / 1.81mA OL

PP_CPU_ECORE - C2813 - (0.575V ~ 1.06V)
 PPOV8_SOC_FIXED_S1 - C1395 - (0.8V)
 PP1V2_SOC - C2911 - (1.2V)

SMB® TÉCNICA II: 3,83V / 2.60mA 108.9Ω
 SMB® TÉCNICA II: 3,76V / 2.52mA 123.2Ω
 SMB® TÉCNICA II: 2,32V / 0.70mA OL

PP_SOC_S1 - C2723 - (0.635V ~ 0.765V)
 PP1V8IO - C2853 - (1.8V)

SMB® TÉCNICA II: 3,95V / 2.75mA 40.7Ω
 SMB® TÉCNICA II: 3,10V / 1.77mA OL

PP1V8_S2 - C4811 - (1.8V)
 PP1V1_S2 - C2980 - (1.1V)

SMB® TÉCNICA II: 2,74V / 1.22mA OL
 SMB® TÉCNICA II: 3,18V / 1.77mA OL

PP3V0_NAND - C2616 - (3.0V)

SMB® TÉCNICA II: 2,21V / 0.57mA OL

PPOV9_NAND - C2602 - (0.9V)

SMB® TÉCNICA II: 3,10V / 1.68mA 348.3Ω

PP1V8_IO_C2631 - (1.8V)

SMB® TÉCNICA II: 3,10V / 1.67mA OL

PP_1V85_SMPS6_IO - C722_K - (1.85V)
 PP_3V3_LDO3_USB_HS - C723_K - (3.3V)

SMB® TÉCNICA II: 2,40V / 0.80mA OL
 SMB® TÉCNICA II: 2,48V / 0.89mA OL

PP_1V1_LD06_BB_IO - C604_K - (1.1V)
 PP_1V0_SMPS5_XCVR_CORE - C705_K - (1.0V)

SMB® TÉCNICA II: 3,22V / 1.82mA OL
 SMB® TÉCNICA II: 3,47V / 2.15mA OL

PP_1V24_LD05_USB_SS - C716_K - (1.24V)
 PP_OV8_SMPS2_BB_DIG - C481_K - (0.8V)

SMB® TÉCNICA II: 2,86V / 1.37mA OL
 SMB® TÉCNICA II: 3,90V / 2.70mA OL

PP_OV9_SMPS1_BB_SRAM - C709_K - (0.9V)

SMB® TÉCNICA II: 3,92V / 2.71mA OL

PP_1V8_LDO4_BB_MEM - C600_K - (1.8V)
 PP_OV77_SMPS4_BB_CORE - C413_K - (0.7V)

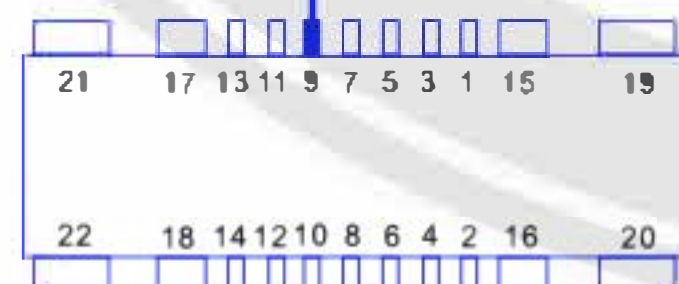
SMB® TÉCNICA II: 2,30V / 0.65mA OL
 SMB® TÉCNICA II: 3,71V / 2.45mA OL

U1000 CPU_AP

U2600 NAND

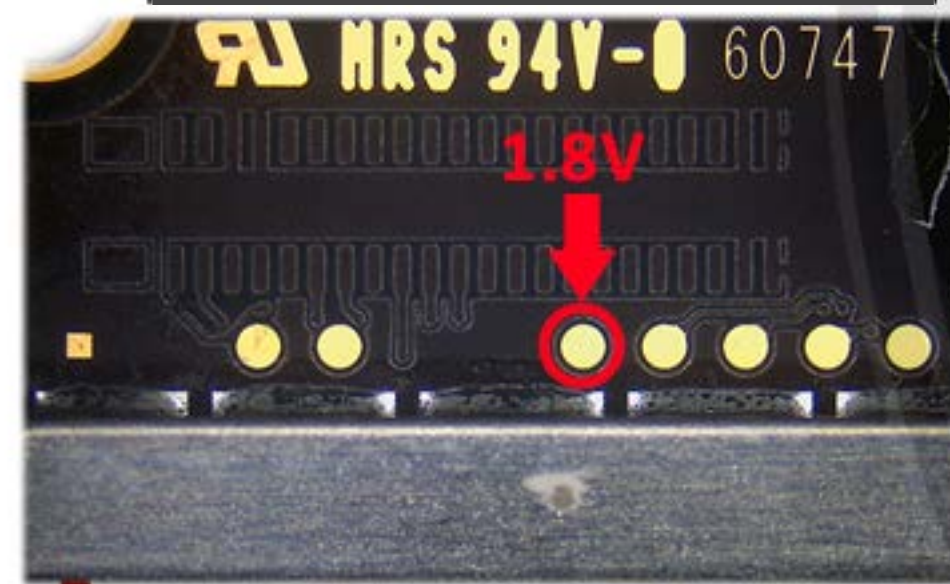
U_BB_k
 CPU_BB
 U_PMIC_K

POWER FPC - GND

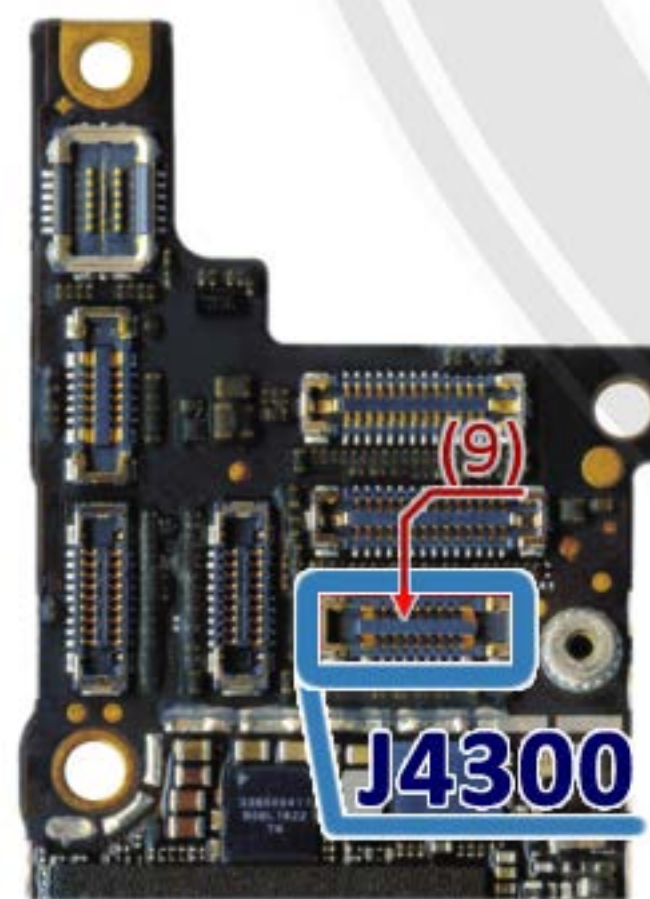


VDD_IC's

FORCE DFU - TP0514



Board-Bottom Side



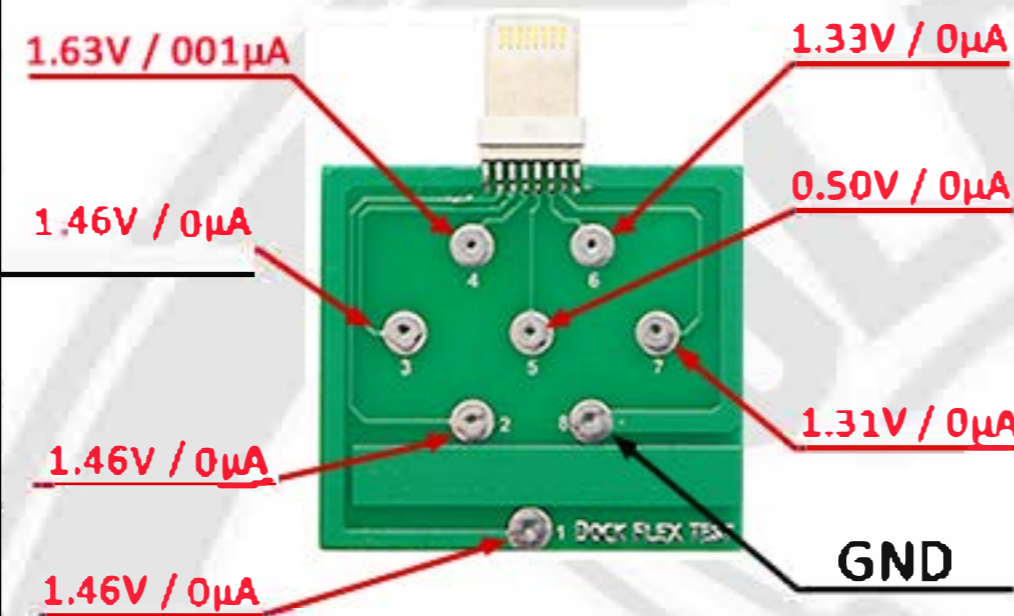
Board-Top Side

J4300

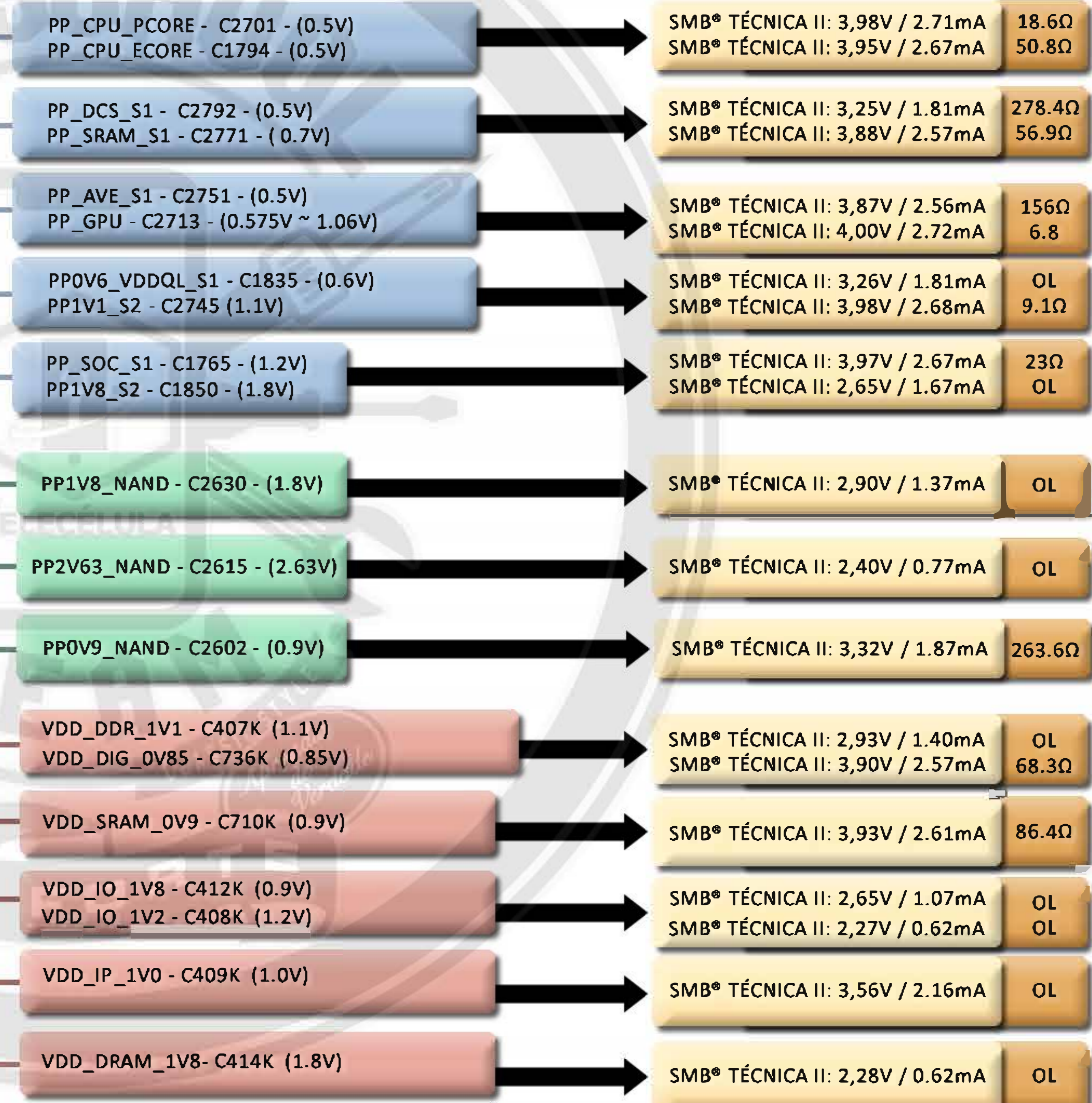
SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | 25C°
 Calibração = 4.00V / 2.74mA | Ω 400Ω

Comparador	
Batt vcc - TP0515	= 2.93V - 1.40mA
VDD Main - C7511	= 2.94V - 1.40mA
VDD BOOST- C6162	= 2.68V - 1.10mA
VBUS_E75 -TP0527	= 1.64V - 0.01mA
CAT1-BL - TP0530	= 1.64V - 0.01mA
CAT2-BL - TP0531	= 1.64V - 0.01mA
Anodo-BL - TP0532	= 1.51V - 000mA

Hydra Checker (SMB)

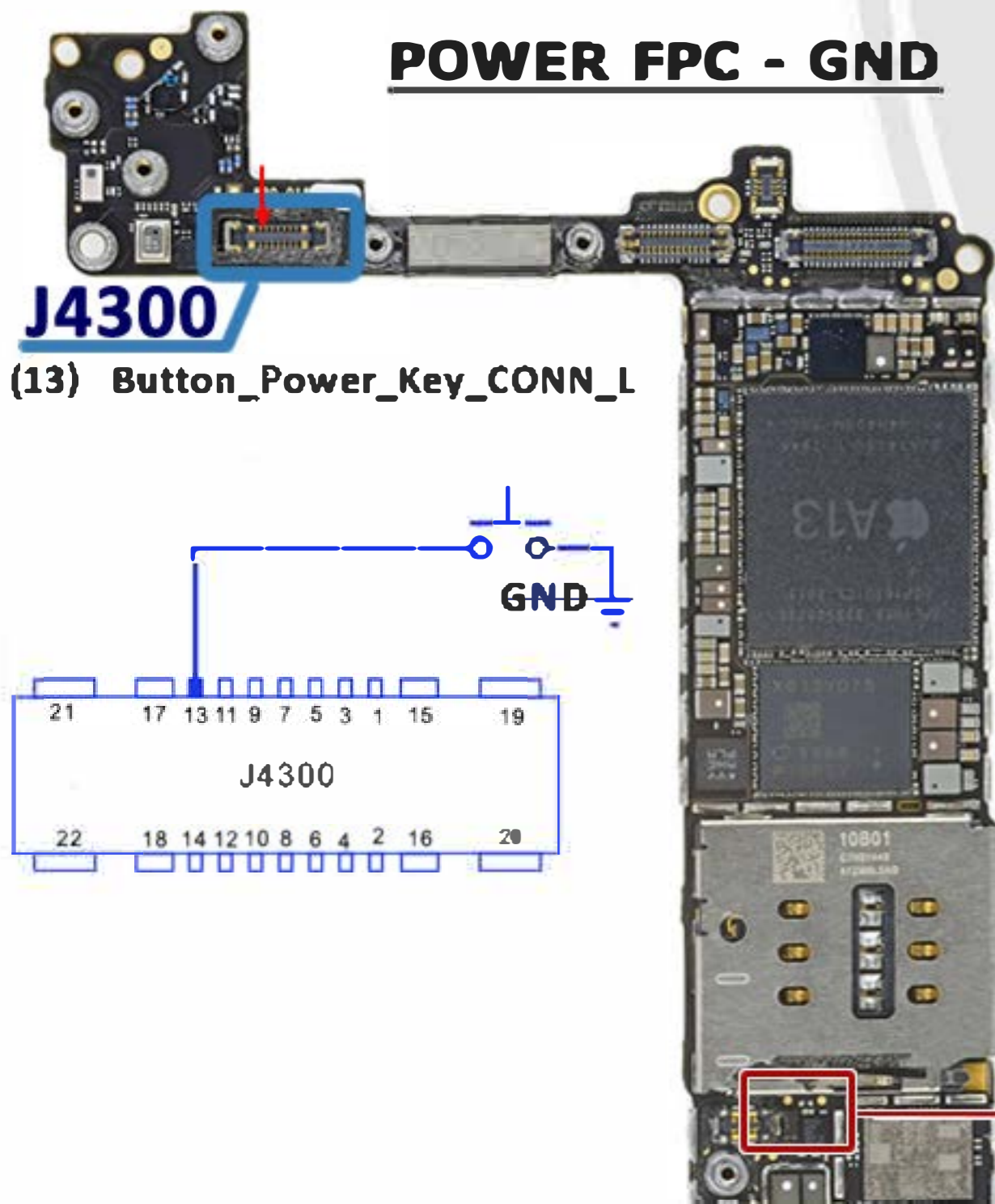


VOLTÍMETRO (DC 20V)



VDD_IC's

POWER FPC - GND



Force DFU (TP0514)



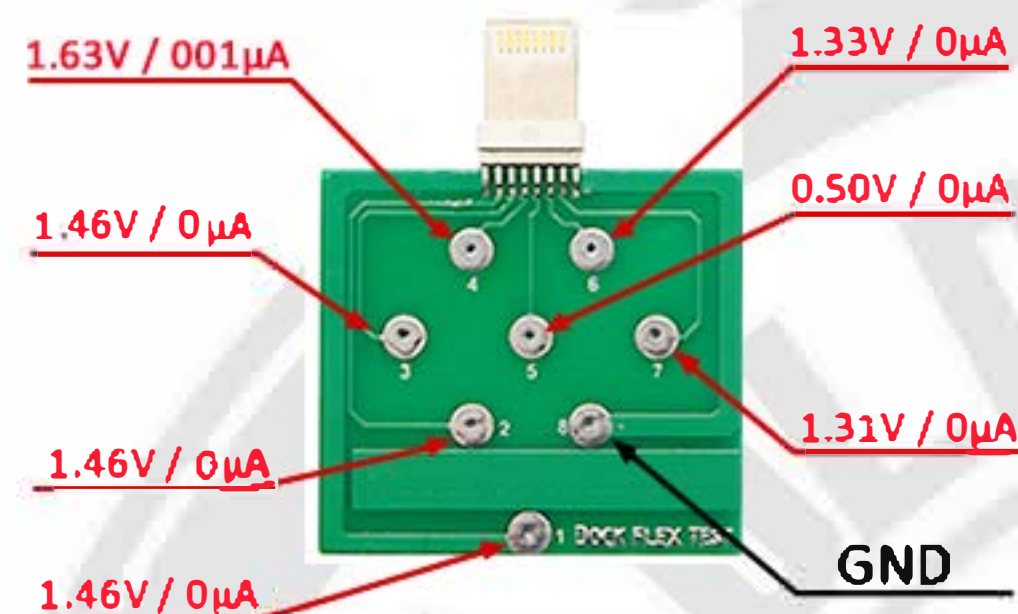
VCORE - IPHONE XS

APN 820-00997-A

Comparador

Batt vcc	= 1.93V - 0.25mA
VDD Main	= 1.95V - 0.26mA
VBUS1_E75	= 1.65V - 0.02mA
VDD_BOOST	= 1.63V - 0.01mA

Hydra Checker (SMB)



VOLTÍMETRO (DC_20V)

VDD_IC's
BOARD MONTADA

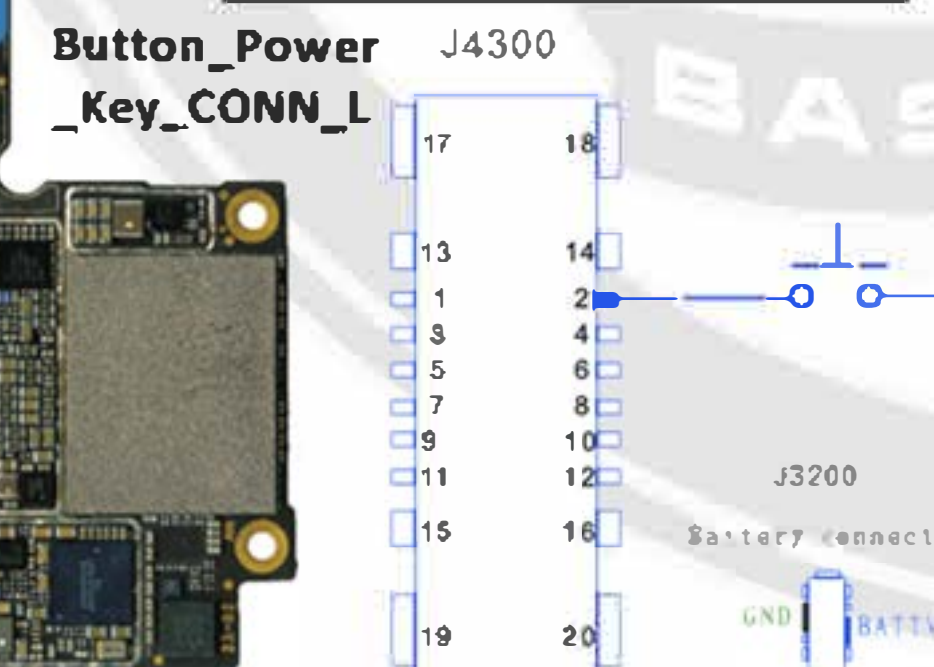
U1000
CPU_AP

U2600
NAND

U_BB_k
CPU_BB
PMB_9948

J4300

POWER FPC - GND



PP_CPU_PCORE - C1702 - (0.575V ~ 1.06V)
PP_CPU_SRAM - C2772 - (0.735V ~ 1.01V)

PP_GPU - C1730 - (0.53V ~ 1.06V)
PPOV7_VDD_LOW_2 - C1750 - (0.7V)

PP_CPU_ECORE - C1794 - (0.575V ~ 1.06V)
PPOV8_SOC_FIXEDS1 - C1801/C1802 - (0.8V)
PP1V2_SOC - C1723 - (1.2V)

PP_SOC_S1 - C1761 - (0.635V ~ 0.765V)
PP1V8IO - C1810 - (1.8V)

PP1V8_S2 - C1850 - (1.8V)

PP2V63_NAND - C2616 - (2.63V)

PPOV9_NAND - C2602 - (0.9V)

PP1V8_IO_ C2626 - (1.8V)

PP_OV8_SMPS2_BB_DIG - C707_K - (0.8V)
PP_1V3_SMPS3_XCVR_ANA - C406_K - (1.3V)

PP_1V85_SMPS6_IO - C424_K (1.8V)

PP_OV7_SMPS4_BB_CORE - C418_K (0.77V)
PP_1V0_SMPS5_XCVR_CORE - C420_K (1.0V)

PP1V1_LD06_BB_IO - C604_K (1.1V)
VDD_LD04_1V8 - C600_K (1.8V)
PPOV9_SMPS1_BB_SRAM - C710_K (0.9V)

VDD_LD03_3V3 - C723_K (3.3V)
VDD_LD05_1V24 - C414_K (1.24V)

SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA
Calibração = 4.01V / 2.86mA

Resistência
40KΩ

SMB® TÉCNICA II: 3,96V / 2.77mA 35.4Ω
SMB® TÉCNICA II: 3,32V / 1.95mA 161.7Ω

SMB® TÉCNICA II: 3,98V / 2.80mA 12.7Ω
SMB® TÉCNICA II: 3,21V / 1.82mA OL

SMB® TÉCNICA II: 3,97V / 2.78mA 114.5Ω
SMB® TÉCNICA II: 3,72V / 2.47mA 104.6Ω
SMB® TÉCNICA II: 2,37V / 0.77mA OL

SMB® TÉCNICA II: 3,95V / 2.76mA 37.2Ω
SMB® TÉCNICA II: 3,19V / 1.79mA OL

SMB® TÉCNICA II: 3,09V / 1.67mA OL

SMB® TÉCNICA II: 2,75V / 1.23mA OL

SMB® TÉCNICA II: 3,23V / 1.84mA 296Ω

SMB® TÉCNICA II: 3,19V / 1.79mA OL

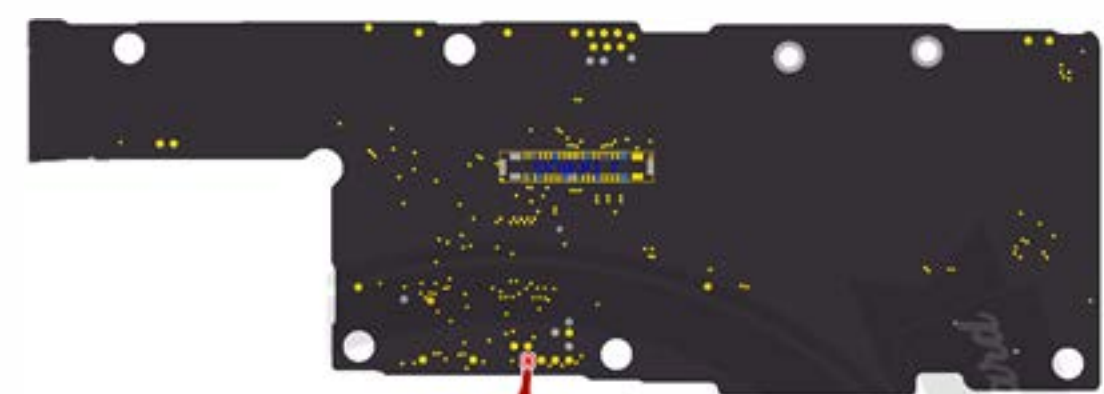
SMB® TÉCNICA II: 3,80V / 2.71mA 67.1Ω
SMB® TÉCNICA II: 2,62V / 1.08mA OL

SMB® TÉCNICA II: 2,46V / 0.88mA OL

SMB® TÉCNICA II: 2,57V / 1.01mA 422Ω
SMB® TÉCNICA II: 3,47V / 2.14mA OL

SMB® TÉCNICA II: 3,34V / 1.98mA OL
SMB® TÉCNICA II: 2,30V / 0.68mA OL
SMB® TÉCNICA II: 3,91V / 2.71mA 78.4Ω

SMB® TÉCNICA II: 2,41V / 0.81mA OL
SMB® TÉCNICA II: 3,30V / 1.93mA OL



FORCE DFU

TP0714
VCC 1.8V

VCORE - IPHONE XS MAX

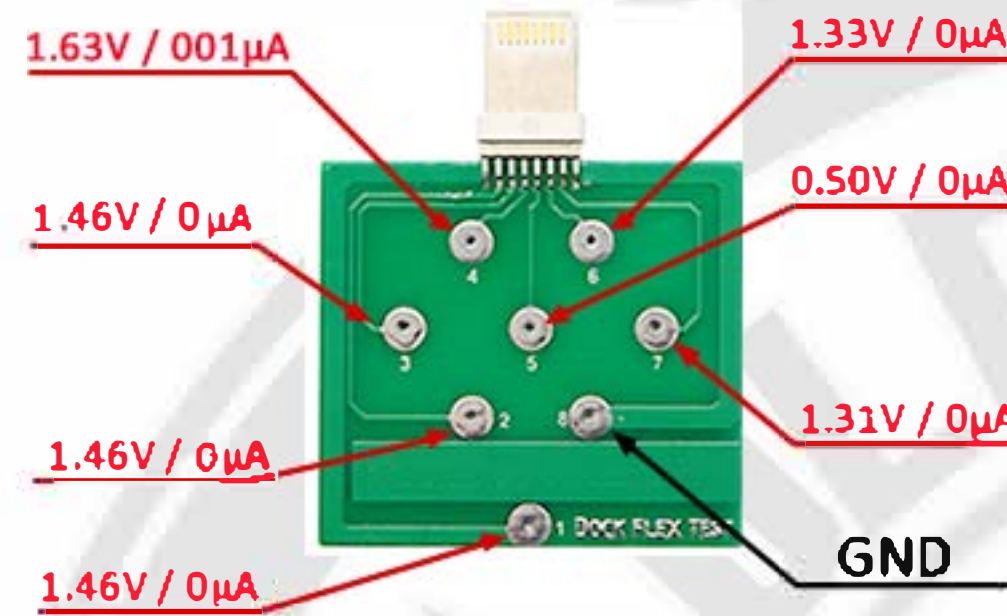
Comparador Core

Batt vcc	= 1.93V - 0.25mA
VDD Main	= 2.06V - 0.40mA
VBUS1_E75	= 1.65V - 0.02mA
VDD_BOOST	= 2.04V - 0.38mA

Comparador RF

VDD Main	= 2.99V - 1.55mA
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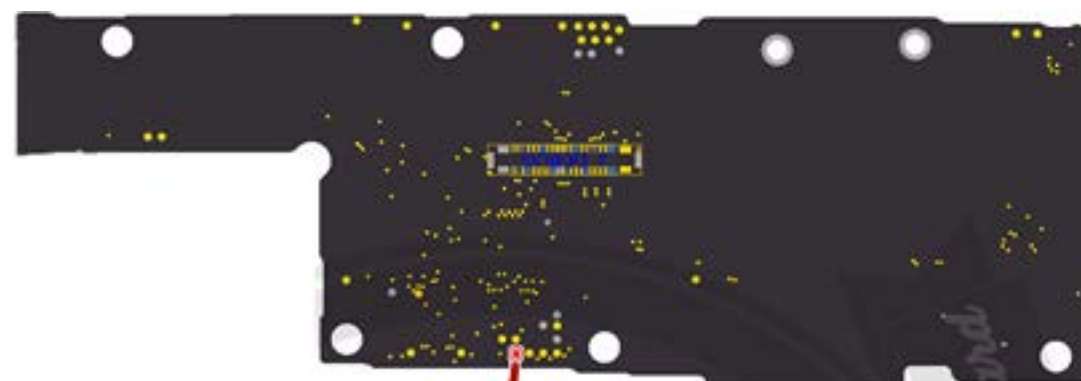
Hydra Checker (SMB)



VDD_IC's
BOARD CORE

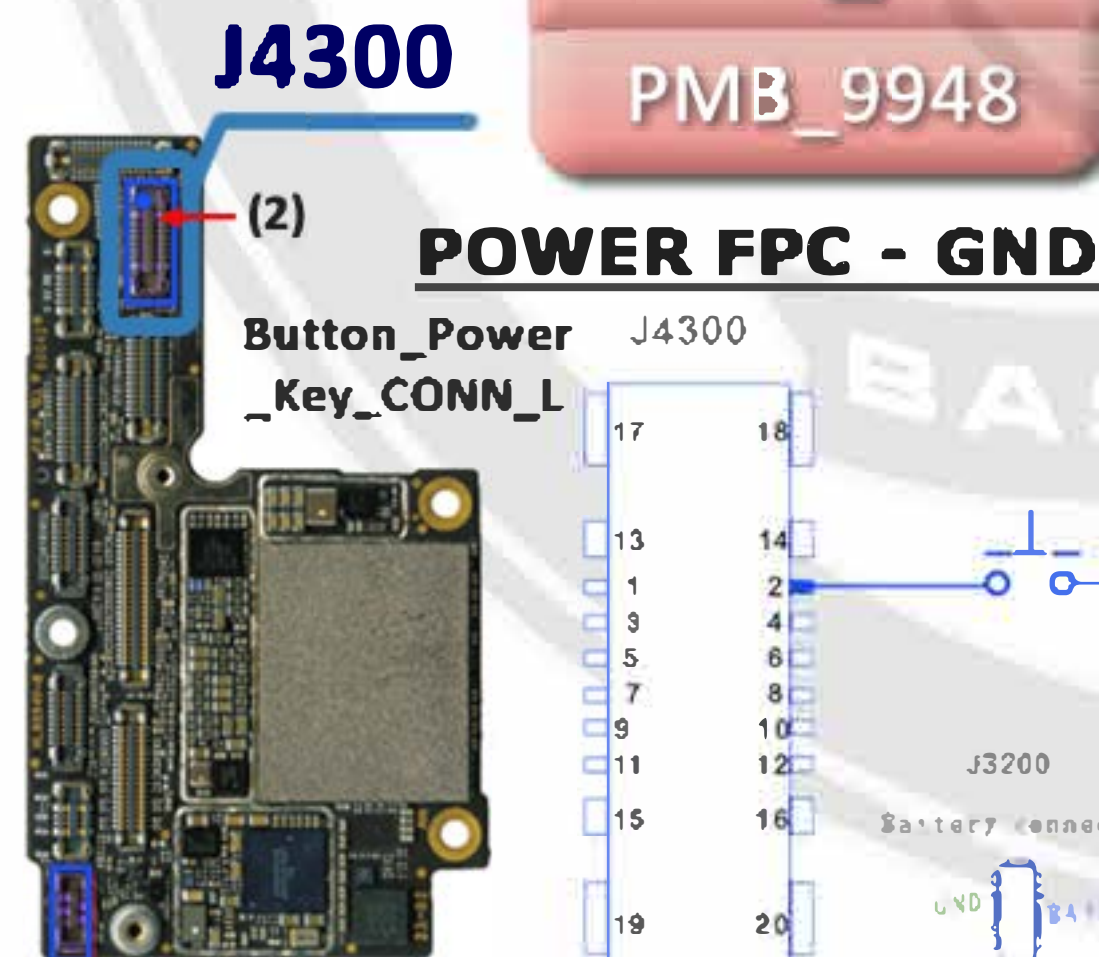
LEITURAS EFETUADAS EM BOARDS SEPARADAS

VDD_IC's
BOARD RF



FORCE DFU

TP0714
VCC 1.8V



VOLTÍMETRO (DC_20V)

Component / Voltage	SMB® TÉCNICA II	Resistência
PP_CPU_PCORE - C1702 - (0.575V ~ 1.06V)	3,96V / 2.77mA	33.2Ω
PP_CPU_SRAM - C2772 - (0.735V ~ 1.01v)	3,35V / 2.00mA	152.9Ω
PP_GPU - C1730 - (0.53V ~ 1.06V)	3,99V / 2.81mA	93Ω
PP0V7_VDD_LOW_2 - C1750 - (0.7V)	3,41V / 2.08mA	OL
PP_GPU_SDRAM - C1781 - (0.675V ~ 1.06V)	3,21V / 1.82mA	OL
PP_CPU_ECORE - C1794 - (0.575V ~ 1.06V)	3,85V / 2.65mA	104.7Ω
PP0V8_SOC_FIXEDS1 - C1801/C1802 - (0.8V)	3,81V / 2.59mA	99.8Ω
PP1V2_SOC - C1723 - (1.2V)	3,04V / 1.61mA	OL
PP_SOC__S1 - C1761 - (0.635V ~ 0.765V)	3,97V / 2.78mA	37.2Ω
PP1V8IO - C1810 - (1.8V)	3,09V / 1.67mA	OL
PP1V1_S2 - C1840 - (1.1V)	3,62V / 2.35mA	OL
PP1V8_S2 - C1850 - (1.8V)	3,09V / 1.67mA	OL
PP2V63_NAND - C2616 - (2.63V)	2,75V / 1.25mA	OL
PP0V9_NAND - C2602 - (0.9V)	3,47V / 2.15mA	286.3Ω
PP1V8_IO_ C2626 - (1.8V)	3,18V / 1.79mA	OL
PP_OV8_SMPS2_BB_DIG - C707_K - (0.8V)	3,89V / 2.70mA	104.8Ω
PP_1V3_SMPS3_XCVR_ANA - C406_K - (1.3V)	2,69V / 1.18mA	OL
PP_1V85_SMPS6_IO - C424_K (1.8V)	2,69V / 1.17mA	OL
PP_OV7_SMPS4_BB_CORE - C418_K (0.77V)	2,64V / 1.12mA	OL
PP_1V0_SMPS5_XCVR_CORE - C420_K (1.0V)	3,46V / 2.15mA	OL
PP1V1_LD06_BB_IO - C604_K (1.1V)	3,03V / 1.60mA	OL
VDD_LD04_1V8 - C600_K (1.8V)	2,35V / 0.75mA	OL
PP0V9_SMPS1_BB_SRAM - C710_K (0.9V)	3,91V / 2.74mA	130Ω
VDD_LD03_3V3 - C723_K (3.3V)	2,62V / 1.09mA	OL
VDD_LD05_1V24 - C414_K (1.24V)	2,48V / 0.92mA	OL

SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA
Calibração = 4.01V / 2.86mA
Resistência 400Ω

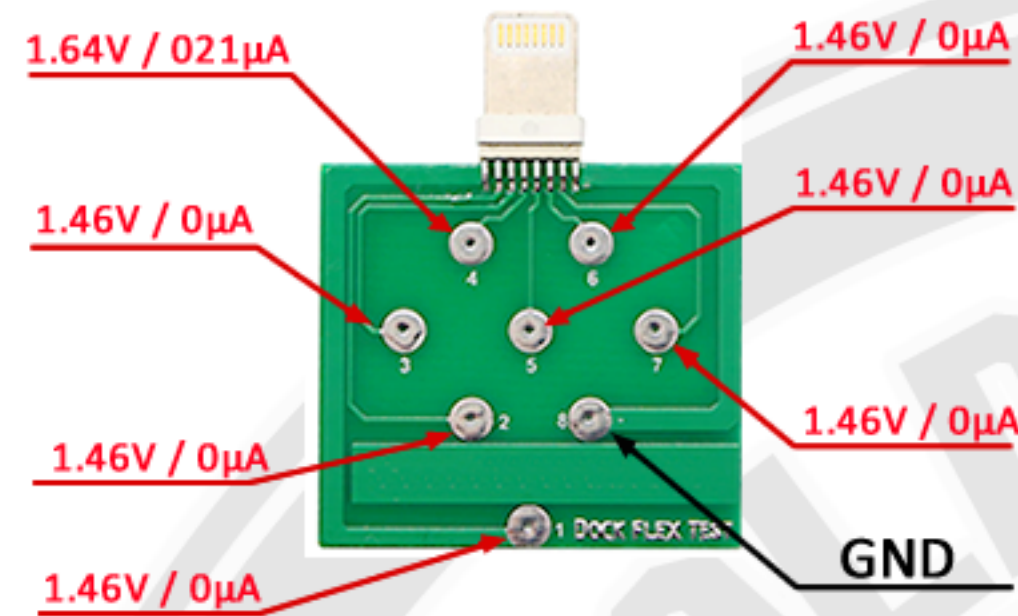
VCORE - IPHONE 11

ZXW

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | Resistência
 Calibração = 4.00V / 2.85mA | 600Ω

Comparador Core	
Batt vcc - J3200(PIN3) =	2.91V - 1.42mA
VDD Main - C3190/C3395=	2.91V - 1.40mA
VBUS1_E75 - C3301 =	1.65V - 0.02mA
VDD_BOOST - C3112 =	2.90V - 1.39mA
Comparador RF	
VDD Main - C417_K =	2.95V - 1.45mA

Hydra Checker (SMB)



VOLTÍMETRO (DC_20V)

VDD_IC's
BOARD CORE

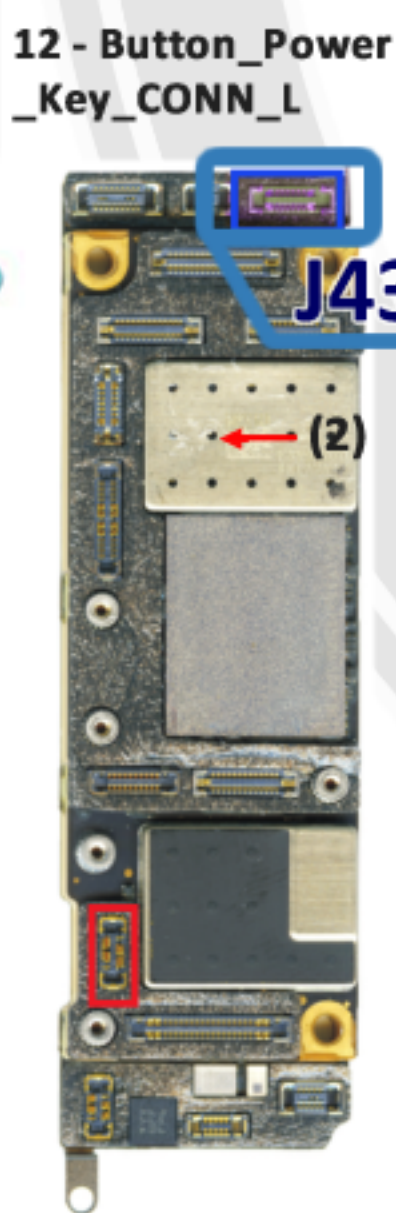
VDD_IC's
BOARD RF

LEITURAS EFETUADAS EM BOARDS SEPARADAS



TP0714
FORCE DFU

VCC 1.8V

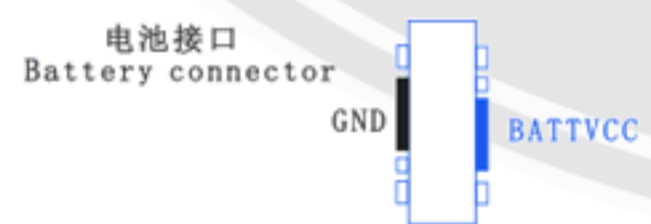


J4300

Calibração: 4.01V / 2.79

U_BB_k
CPU_BB
PMB_9948

POWER FPC - GND



PP_CPU_PCORE - C2701 / C2702 / INT 257 PP_GPU_LVCC - INTERPOSER 259 / C2711	SMB® TÉCNICA II: 3,96V / 2.78mA SMB® TÉCNICA II: 3,99V / 2.81mA	29.8Ω 8.8Ω
PP1V2_SOC - C2911 PPOV8_SOC_FIXED_S1 - C1802, C1821, C2754	SMB® TÉCNICA II: 3,08V / 1.65mA SMB® TÉCNICA II: 3,42V / 2.09mA	OL OL
PP_SOC_S1 - C2763 / C2722 PP_SRAM_S1 - C2771 / C2772 PP_DCS_S1 - C2791 / C2792	SMB® TÉCNICA II: 3,94V / 2.75mA SMB® TÉCNICA II: 3,47V / 2.15mA SMB® TÉCNICA II: 3,63V / 2.35mA	40Ω 93.7Ω 400Ω
PP_OV6_VDDQL_S1 - C2802 / C2801 PP_1V8_S2 - C4811 / INTERPOSER 204	SMB® TÉCNICA II: 3,23V / 1.84mA SMB® TÉCNICA II: 2,60V / 1.05mA	OL OL
PP_1V8_IO - C4495 / C2653 / C2645 PP_1V1_S2 - C1840 / C1841	SMB® TÉCNICA II: 3,18V / 1.78mA SMB® TÉCNICA II: 3,86V / 2.64mA	OL 28.7Ω
PP2V63_NAND - C2616 / C2621 PP_1V8_NAND - C2624 / C2626	SMB® TÉCNICA II: 1,95V / 0.25mA SMB® TÉCNICA II: 2,92V / 1.40mA	OL OL
PPOV9_NAND - C2602 - (0.9V) *PP_1V8_IO - C4495, C2645, C2641	SMB® TÉCNICA II: 3,30V / 1.87mA SMB® TÉCNICA II: 2,93V / 1.40mA	396Ω OL
PP1V8_IO_PLL_AVOD - C2648	SMB® TÉCNICA II: 2,90V / 1.38mA	OL
VDD_DIG_OV85 - C401_K VRF_DIG_OV9 - C404_K VRF_LO_1V15 - C418_K	SMB® TÉCNICA II: 3,88V / 2.63mA SMB® TÉCNICA II: 3,65V / 2.33mA SMB® TÉCNICA II: 2,96V / 1.47mA	49,8Ω OL OL
VRF_MED_1V3 - C406_K VDD_IO_1V8 - C412_K VFE_HI_3V15 - C416_K	SMB® TÉCNICA II: 2,67V / 1.12mA SMB® TÉCNICA II: 2,67V / 1.11mA SMB® TÉCNICA II: 1,96V / 0.30mA	OL OL OL
VDD_IP_1V0 - C409_K VDD_DRAM_1V8 - C414_K VDD_IO_1V2 - C408_K	SMB® TÉCNICA II: 3,43V / 2.06mA SMB® TÉCNICA II: 2,28V / 0.63mA SMB® TÉCNICA II: 2,24V / 0.60mA	OL OL OL
VDD_DDR_1V1 - C407_K VFE_LO_1V2 - C413_K VDD_SRAM_OV9 - C710_K	SMB® TÉCNICA II: 3,60V / 2.30mA SMB® TÉCNICA II: 2,28V / 0.63mA SMB® TÉCNICA II: 3,92V / 2.65mA	543Ω OL 71,2Ω
PP_VDD_SIM1 - C428_K PP_VDD_SIM2 - C427_K VPA_ET_LB - C1206	SMB® TÉCNICA II: 1,64V / 0.01mA SMB® TÉCNICA II: 1,64V / 0.01mA SMB® TÉCNICA II: 2,67V / 1.10mA	OL OL OL
VPA_ET_HB - C1207 VPA_ET_UHB - PADS INTERPOSER 43 ao 46 RFFE_LAA_UAT_U10 (ZXW PP_1V8_XCVR_TO_FE_RFFE_10) - C922_K / R310W	SMB® TÉCNICA II: 2,67V / 1.10mA SMB® TÉCNICA II: 2,58V / 1.00mA SMB® TÉCNICA II: 2.30V / 0.65mA	OL OL OL

VCORE - IPHONE 11 (WU XIN JI)

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | Resistência
 Calibração = 4.00V / 2.85mA | 600Ω

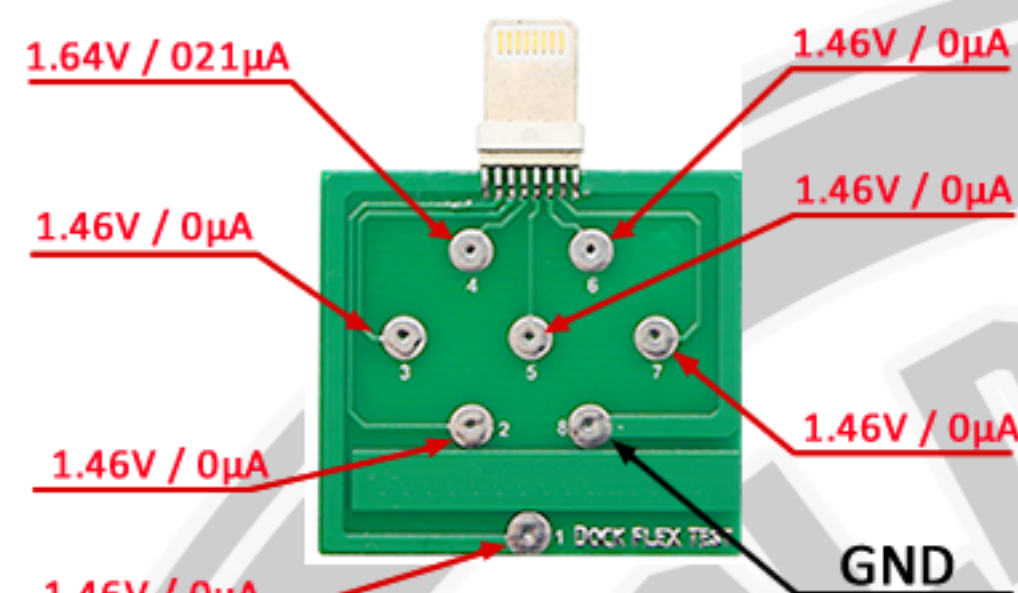
Comparador Core

Batt vcc - J7000(PIN3) = 2.91V - 1.42mA
VDD Main - C3190/3395 = 2.91V - 1.40mA
VBUS1_E75 - C3301 = 1.65V - 0.02mA
VDD_BOOST - C3112 = 2.90V - 1.39mA

Comparador RF

VDD Main - C417_K = 2.95V - 1.45mA

Hydra Checker (SMB)



VOLTÍMETRO (DC_20V)

VDD_IC's
BOARD CORE

LEITURAS EFETUADAS EM BOARDS SEPARADAS

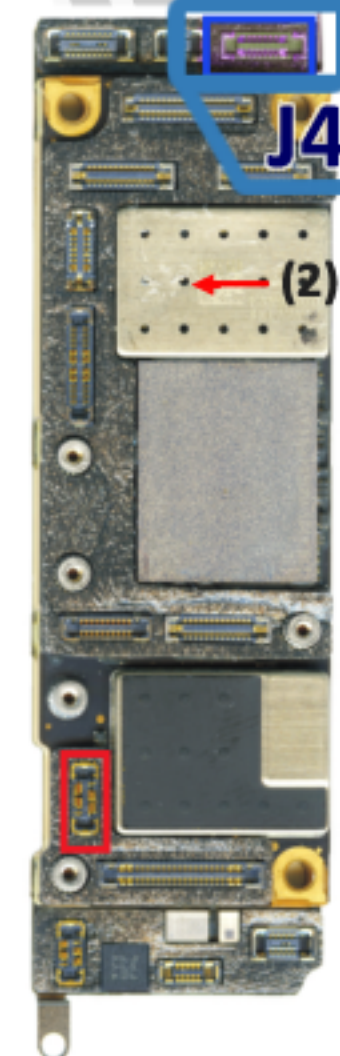
VDD_IC's
BOARD RF



TP0714
FORCE DFU

VCC 1.8V

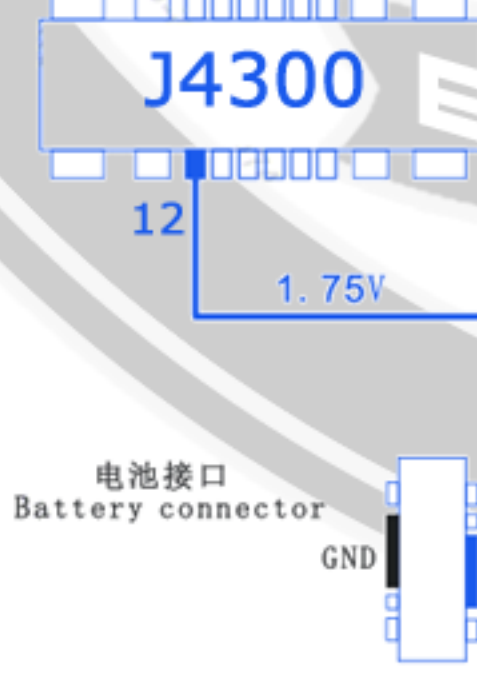
12 - Button_Power
_Key_CONN_L



J4300

U_BB_k
CPU_BB
PMB_9948

POWER FPC - GND



Calibração: 4.01V / 2.79

PP_CPU_PCORE_LVCC - C2701 / C2703
 PP_GPU_LVCC - INTERPOSER 340 / C2712

PP1V2_SOC - C2903
 PPOV8_SOC_FIXED_S1 - C1806, C1817, C2980

PP_SOC_S1 - C2721 / C2722
 PP_SRAM_S1 - C2771 / C2772
 PP_DCS_S1 - C2791 / C1989

PP_OV6_VDDQL_S1 - C1933 / C2801
 PP_1V8_S2 - C4801 / INTERPOSER 425

*PP_1V8_IO - C4495 / C2626 / C2641
 PP_1V1_S2 - C1980 / C1981

PP2V63_NAND - C2613 / C2621
 PP_VDDIO_2_NAND_R - C2643 / C2645

PPOV9_NAND - C2602 - (0.9V)
 *PP_1V8_IO - C4495, C2626, C2641

PP1V8_IO_NAND_R - C2663

VDD_DIG_OV85 - C401_K
 VRF_DIG_OV9 - C404_K
 VRF_LO_1V15 - C418_K

VRF_MED_1V3 - C406_K
 VDD_IO_1V8 - C412_K
 VFE_HI_3V15 - C416_K

VDD_IP_1V0 - C409_K
 VDD_DRAM_1V8 - C414_K
 VDD_IO_1V2 - C408_K

VDD_DDR_1V1 - C407_K
 VFE_LO_1V2 - C413_K
 VDD_SRAM_OV9 - C710_K

PP_VDD_SIM1 - C428_K
 PP_VDD_SIM2 - C427_K
 VPA_ET_LB - C1206

VPA_ET_HB - C1207
 VPA_ET_UHB - PADS INTERPOSER 43 ao 46
 RFFE_LAA_UAT_U10 (ZXW PP_1V8_XCVR_TO_FE_RFFE_10) - C922_K / R310W

SMB® TÉCNICA II: 3,96V / 2.78mA 29.8Ω
 SMB® TÉCNICA II: 3,99V / 2.81mA 8.8Ω

SMB® TÉCNICA II: 3,08V / 1.65mA OL
 SMB® TÉCNICA II: 3,42V / 2.09mA OL

SMB® TÉCNICA II: 3,94V / 2.75mA 40Ω
 SMB® TÉCNICA II: 3,47V / 2.15mA 93.7Ω
 SMB® TÉCNICA II: 3,63V / 2.35mA 400Ω

SMB® TÉCNICA II: 3,23V / 1.84mA OL
 SMB® TÉCNICA II: 2,60V / 1.05mA OL

SMB® TÉCNICA II: 3,18V / 1.78mA OL
 SMB® TÉCNICA II: 3,86V / 2.64mA 28.7Ω

SMB® TÉCNICA II: 1,80V / 0.19mA OL
 SMB® TÉCNICA II: 2,84V / 1.38mA OL

SMB® TÉCNICA II: 3,00V / 1.52mA 396Ω
 SMB® TÉCNICA II: 2,80V / 1.35mA OL

SMB® TÉCNICA II: 2,80V / 1.35mA OL

SMB® TÉCNICA II: 3,88V / 2.63mA
 SMB® TÉCNICA II: 3,65V / 2.33mA
 SMB® TÉCNICA II: 2,96V / 1.47mA

SMB® TÉCNICA II: 2,67V / 1.12mA
 SMB® TÉCNICA II: 2,67V / 1.11mA
 SMB® TÉCNICA II: 1,96V / 0.30mA

SMB® TÉCNICA II: 3,43V / 2.06mA
 SMB® TÉCNICA II: 2,28V / 0.63mA
 SMB® TÉCNICA II: 2,24V / 0.60mA

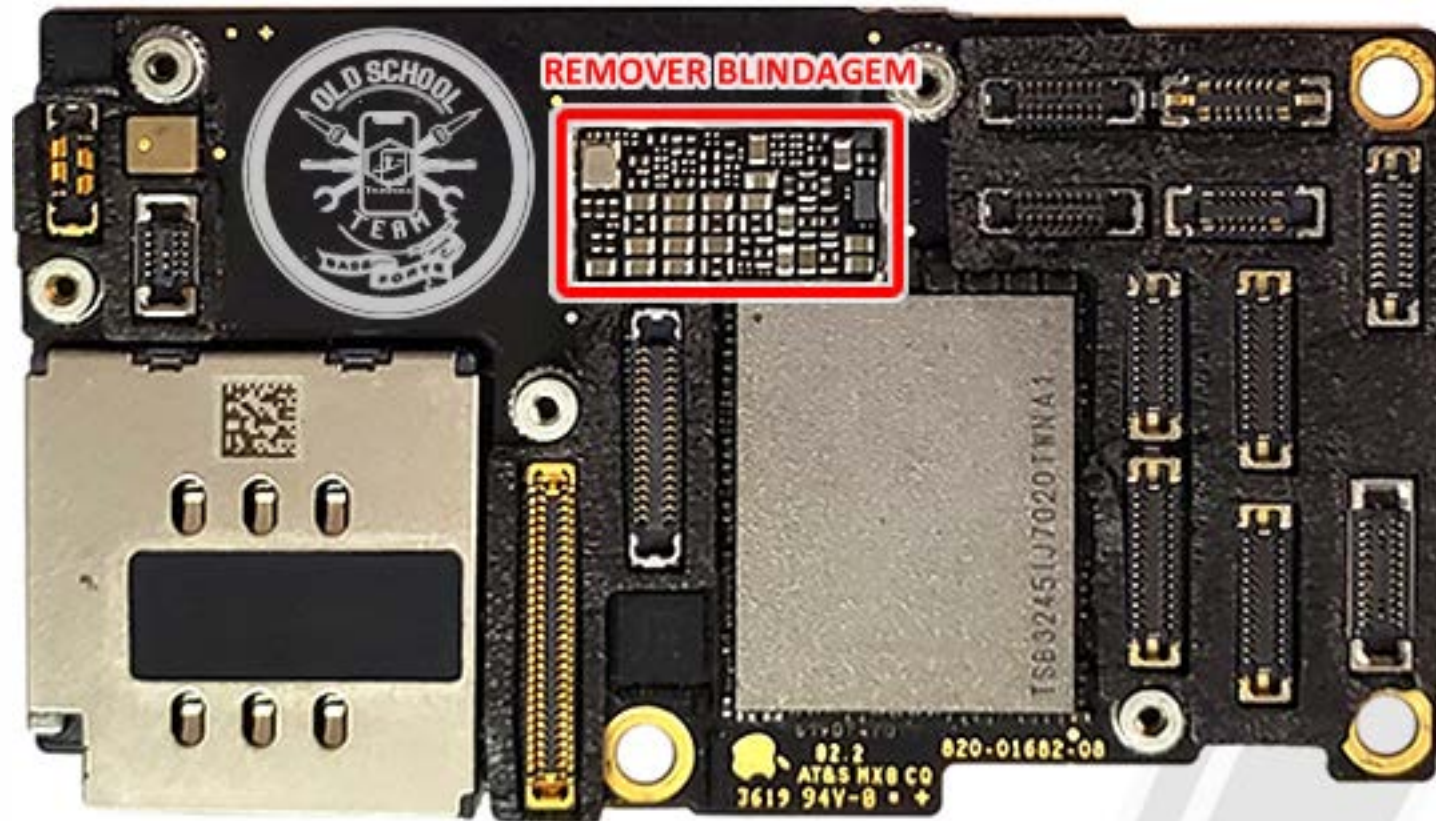
SMB® TÉCNICA II: 3,60V / 2.30mA
 SMB® TÉCNICA II: 2,28V / 0.63mA
 SMB® TÉCNICA II: 3,92V / 2.65mA

SMB® TÉCNICA II: 1,64V / 0.01mA
 SMB® TÉCNICA II: 1,64V / 0.01mA
 SMB® TÉCNICA II: 2,67V / 1.10mA

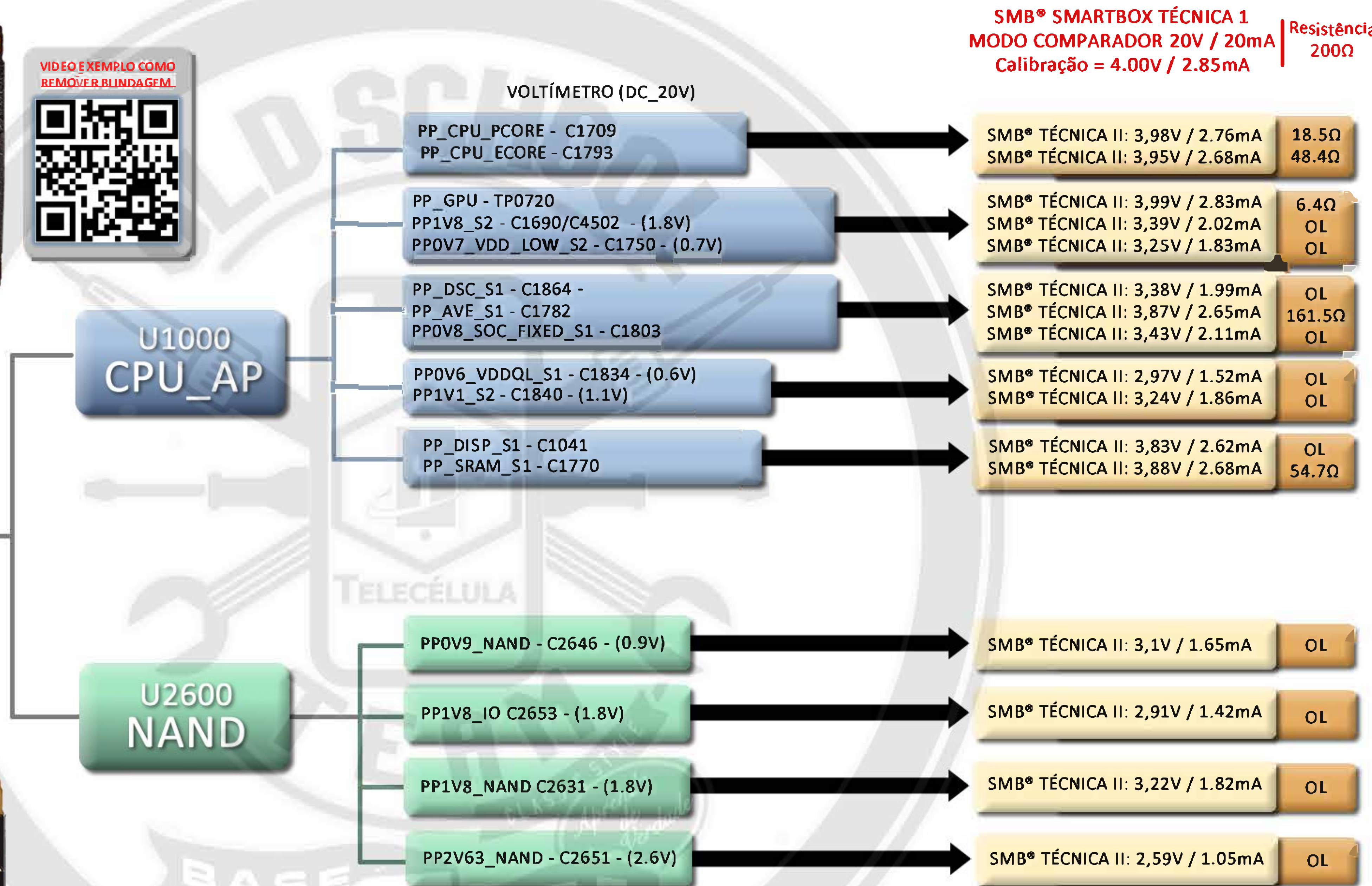
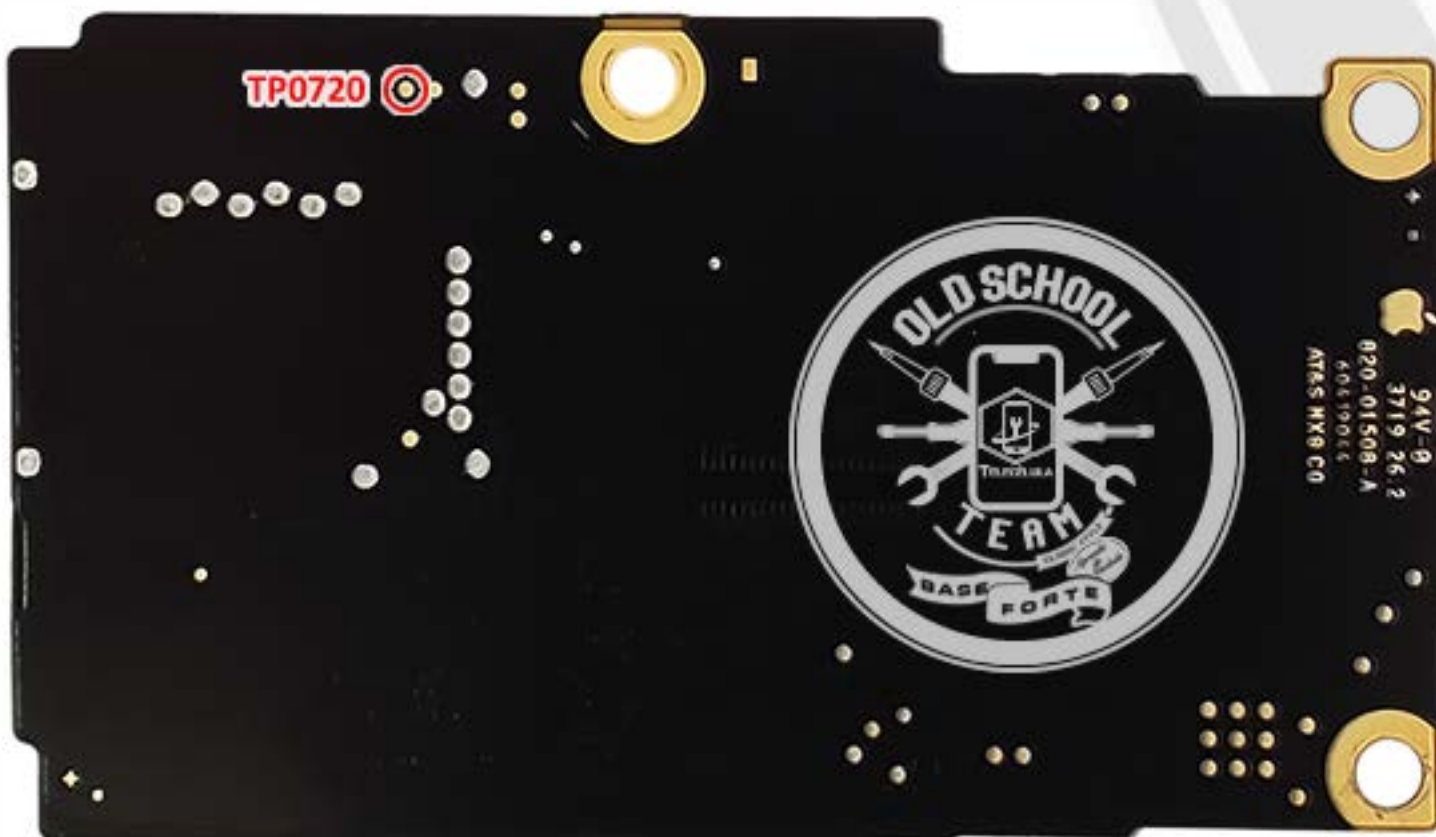
SMB® TÉCNICA II: 2,67V / 1.10mA
 SMB® TÉCNICA II: 2,58V / 1.00mA
 SMB® TÉCNICA II: 2.30V / 0.65mA

VCORE - IPHONE 11 PRO MAX

820-01682-08



VDD_IC's
BOARD CORE
(MONTADA)



SMB® SMARTBOX TÉCNICA 1
MODO COMPARADOR 20V / 20mA | Resistência 200Ω
Calibração = 4.00V / 2.85mA



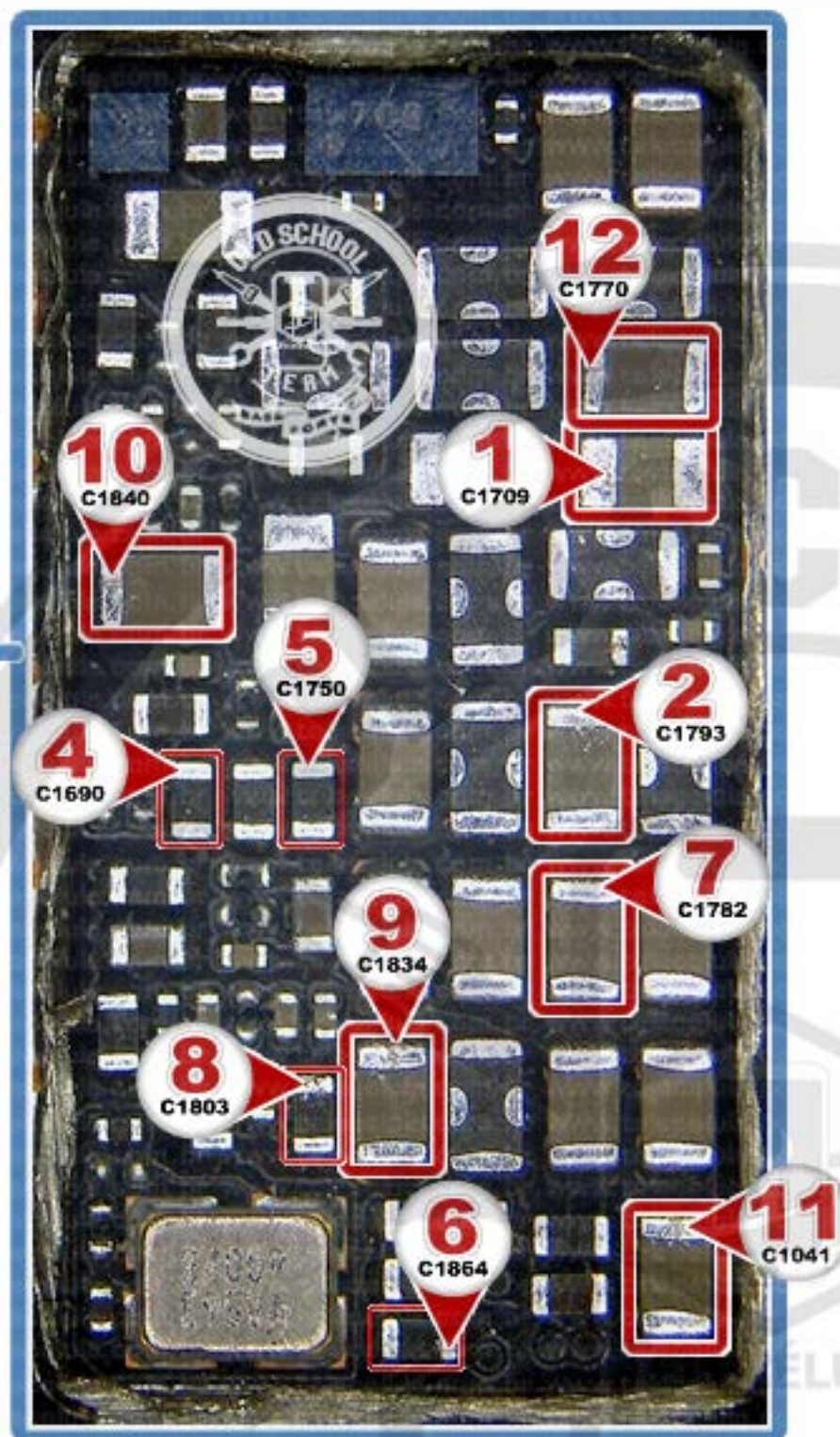
LEITURA EFETUADA EM BOARD MONTADA



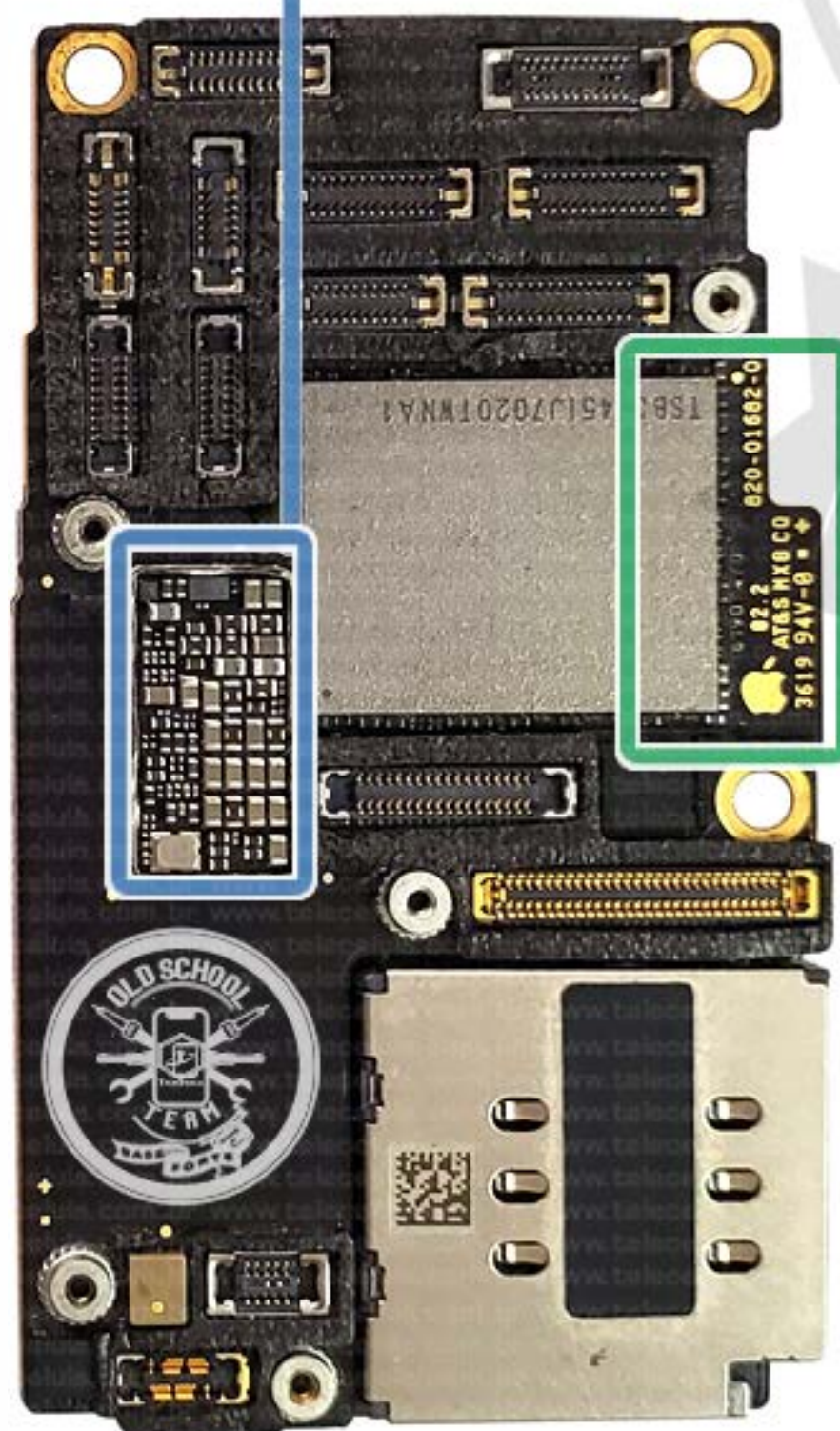
VCORE - IPHONE 11 PRO MAX

820-01682-08

SMB® SMARTBOX TÉCNICA 1
 MODO COMPARADOR 20V / 20mA | Resistência
 Calibração = 4.00V / 2.85mA | 200Ω



PP_CPU_PCORE	1 C1709	SMB® TÉCNICA I: 3,98V / 2.76mA	18.5Ω
PP_CPU_ECORE	2 C0793	SMB® TÉCNICA I: 3,95V / 2.68mA	48.4Ω
PP_GPU	3 TP1720	SMB® TÉCNICA I: 3,99V / 2.83mA	6.4Ω
PP1V8_S2	4 C1890	SMB® TÉCNICA I: 3,39V / 2.02mA	OL
PP0V7_VDD_LOW_S2	5 C1750	SMB® TÉCNICA I: 3,25V / 1.83mA	OL
PP_DSC_S1	6 C1864	SMB® TÉCNICA I: 3,38V / 1.99mA	OL
PP_AVE_S1	7 C1782	SMB® TÉCNICA I: 3,87V / 2.65mA	161.5Ω
PP0V8_SOC_FIXED_S1	8 C1803	SMB® TÉCNICA I: 3,43V / 2.11mA	OL
PP0V6_VDDQL_S1	9 C1834	SMB® TÉCNICA I: 2,97V / 1.52mA	OL
PP1V1_S2	10 C1840	SMB® TÉCNICA I: 3,24V / 1.86mA	OL
PP_DISP_S1	11 C1041	SMB® TÉCNICA I: 3,83V / 2.62mA	OL
PP_SRAM_S1	12 C1770	SMB® TÉCNICA I: 3,88V / 2.68mA	54.7Ω



PP0V9_NAND	1 C2848	SMB® TÉCNICA I: 3,10V / 1.65mA	OL
PP1V8_IO	2 C2653	SMB® TÉCNICA I: 2,91V / 1.42mA	OL
PP1V8_NAND	3 C2631	SMB® TÉCNICA I: 3,22V / 1.82mA	OL
PP2V63_NAND	4 C2651	SMB® TÉCNICA I: 2,59V / 1.05mA	OL



TELECÉLULA

VIDEO EXEMPLO COMO
 REMOVER BLINDAGEM



LEITURA EFETUADA EM BOARD MONTADA



VCORE - IPHONE 12 PRO (MONTADA/DESMONTADA)

SMB® SMARTBOX
MODO COMPARADOR 20V / 20mA
Calibração = 4.00V / 2.85mA

Resistência
200Ω



VIDEO EXEMPLO COMO
REMOVER BLINDAGEM



MALHA - PARTLABEL - VOLTÍMETRO (DC_20V)

SMB® TÉCNICA _____ Resistência 200Ω

VDD_IC's
BOARD CORE
(MONTADA)

U1000
CPU_AP

U2900
NAND

PP_CPU_PCORE - C3302 (0,528V - 1,061V)	_____ V	_____ V / _____ mA	_____ Ω
PP_SOC_S1 - C3321 - (0,612V - 0,79V)	_____ V	_____ V / _____ mA	_____ Ω
PP_GPU_ECORE - C3312 - (0,542-1,044V)	_____ V	_____ V / _____ mA	_____ Ω
PP1V8_S4 - C3331 - (1,8V)	_____ V	_____ V / _____ mA	_____ Ω
PP_AVE_S1 - C3350 - (0,614-0,763V)	_____ V	_____ V / _____ mA	_____ Ω
PP_CPU_ECORE - C3411 - (0,519V - 0,828V)	_____ V	_____ V / _____ mA	_____ Ω
PP1V8_S2 - C9490 - (1,80V)	_____ V	_____ V / _____ mA	_____ Ω
PP_1V06_S2 - C3342 - (0,98-1,1V)	_____ V	_____ V / _____ mA	_____ Ω
PP_1V8_ALWAYS - C3590 - (1,8V)	_____ V	_____ V / _____ mA	_____ Ω
PP_SRAM_S1 - C3371 - (0,769V)	_____ V	_____ V / _____ mA	_____ Ω
PP0V83_NAND - C2948 - (0,83V)	_____ V	_____ V / _____ mA	_____ Ω
PP1V2_IO (I-VDDI01) - C2941 - (1,20V)	_____ V	_____ V / _____ mA	_____ Ω
PPIV2_IO (I-VDDIO2) C2931 - (1,2V)	_____ V	_____ V / _____ mA	_____ Ω
PP2V625_NAND - C2952 - (2,65V)	_____ V	_____ V / _____ mA	_____ Ω

LEITURA EFETUADA EM BOARD RF MONTADA

LEITURA EFETUADA EM BOARD RF DESMONTADA

VDD_IC's
BOARD RF
(DESMONTADA)

U_BB_E
CPU_BB
PMB_9948

PP_0V75_SMPS1_6 - C761_E	_____ V	_____ V / _____ mA	_____ Ω
PP_1V22_SMPS2 - C429_E	_____ V	_____ V / _____ mA	_____ Ω
PP_0V82_SMPS3 - C430_E	_____ V	_____ V / _____ mA	_____ Ω
PP_1V9_SMPS4 - C431_E	_____ V	_____ V / _____ mA	_____ Ω
PP_0V75_SMPS5_SNS - C432_E	_____ V	_____ V / _____ mA	_____ Ω
PP_0V75_SMPS7 - C433_E	_____ V	_____ V / _____ mA	_____ Ω
PP_VDD_RF1V2 - C511_E	_____ V	_____ V / _____ mA	_____ Ω
PP_1V1_LDO2 - C512_E	_____ V	_____ V / _____ mA	_____ Ω
PP_0V8_LDO3 - C513_E	_____ V	_____ V / _____ mA	_____ Ω
PP_0V875_LDO4- C514_E	_____ V	_____ V / _____ mA	_____ Ω
PP_1V8_LDO5 - C515_E	_____ V	_____ V / _____ mA	_____ Ω
PP_LDO6_VIO_1V8 - C516_E	_____ V	_____ V / _____ mA	_____ Ω
PP_1V2_LDO12 - C524_E	_____ V	_____ V / _____ mA	_____ Ω
PP_0V6_LDO14 - C523_E	_____ V	_____ V / _____ mA	_____ Ω
PP_1V2_LDO15 - C525_E	_____ V	_____ V / _____ mA	_____ Ω
PP_UIM2_LDO13 - C4100_E	_____ V	_____ V / _____ mA	_____ Ω
PP_VDD_BOOST - C2108_E	_____ V	_____ V / _____ mA	_____ Ω
PP_VDD_MAIN_QET_BBPMU - C401_E C411_E	_____ V	_____ V / _____ mA	_____ Ω

VIDEO EXEMPLO COMO
SEPARAR INTERPOSER



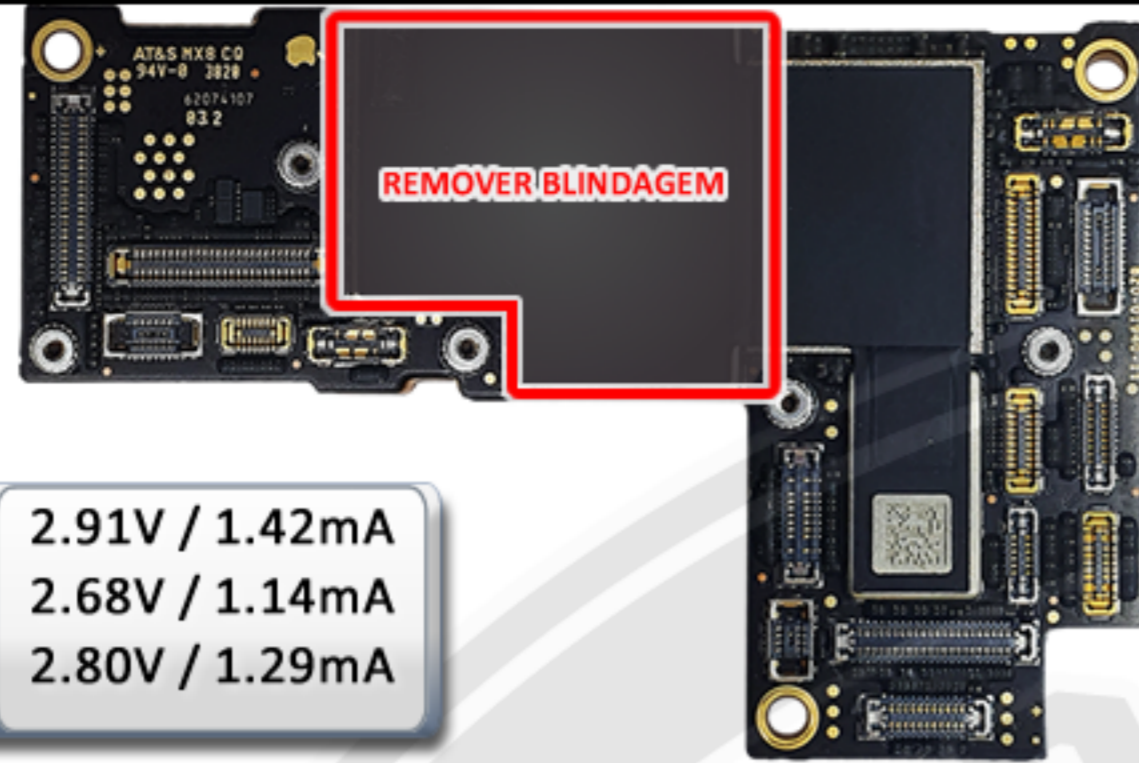
VCORE - IPHONE 12 PRO MAX (DESMONTADA)

SMB® SMARTBOX
MODO COMPARADOR 20V / 20mA
Calibração = 4.00V / 2.80mA

Resistência
400Ω



VIDEO EXEMPLO COMO
REMOVER BLINDAGEM



PP_VDD_MAIN - C4651 2.91V / 1.42mA
PP_VDD_BOOST - C7910 2.68V / 1.14mA
PP1V2_S4 - PAD 27 2.80V / 1.29mA

**VDD_IC's
BOARD CORE
(DESMONTADA)**

U1000
CPU_AP

U2900
NAND

MALHA - PART NUMBER BOARD - VOLTÍMETRO (DC_20V)

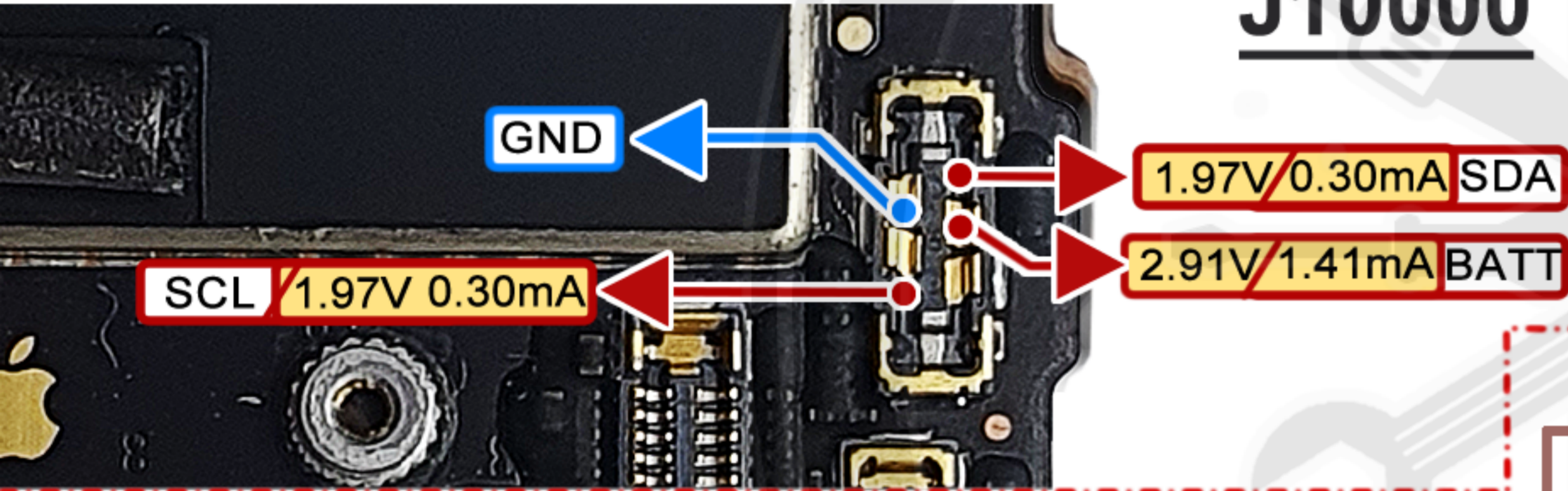
PP_CPU_SRAM - C3403 ()	0.7V~1.0V
PP_CPU_ECORE - C3412 - (0,519V - 0,828V)	0.52V
PP_0V9_S1 - C3423 (0,9V)	0.9V
PP_DCS_S1 - C3430	0.6V~0.8V
PP_CPU_PCORE - C3302 - (0,528V - 1,061V)	0.52V
PP_GPU - C3312 - (0,542-1,044V)	0.55V
PP_SOC_S1 - C3321 - (0,612V - 0,79V)	0.62V
PP1V8_S4 - C3334 - (1,8V)	1.82V
PP_1V06_S2 - C3342 - (0,98-1,1V)	1.06V
PP_AVE_S1 - C3350 - (0,614-0,763V)	0.65V
PP_SRAM_S1 - C3371 - (0,769V)	0.70V
PP_1V8_ALWAYS - C3590 - (1,8V)	1.80V
PP1V8_S2 - C9490 - (1,80V)	1.80V

SMB® TÉCNICA COMPARADOR Resistência 400Ω

3.24V / 1.83mA	Ω
3.92V / 2.71mA	Ω
2.70V / 1.20mA	Ω
3.30V / 1.92mA	Ω
3.95V / 2.74mA	Ω
3.99V / 2.79mA	Ω
3.94V / 2.73mA	Ω
2.11V / 0.44mA	Ω
3.63V / 2.33mA	Ω
3.27V / 1.88mA	Ω
3.26V / 1.87mA	Ω
3.28V / 1.88mA	Ω
3.28V / 1.92mA	Ω
2.40V / 0.80mA	Ω
3.10V / 1.66mA	Ω
3.10V / 1.66mA	Ω
3.10V / 1.65mA	Ω
3.06V / 1.60mA	Ω

⚠ LEITURA EFETUADA EM BOARD AP DESMONTADA ⚠

J10000



GND

1.97V/0.30mA SDA

SCL 1.97V 0.30mA

2.91V/1.41mA BATT

PP2V625_NAND - C2913 - (2.65V)	2.65V
PP1V2_IO - C2929 C2925 R2926	1.20V
PP0V83_NAND - C2948 - (0.83V)	0.83V

PP_1V2_S4 (PP12653) - PAD 27/C3364	1.2V
VSW_SMPS1/S6 - C726_E	0.75V
VSW_SMPS_2 - VREG/LDO - C429_E	1.24V
VSW_SMPS_3 - BB/VREG/LDO - C430_E	0.82V
VSW_SMPS4 - VREG/RF/mmW - C431_E	1.9V

VSW_SMPS5 - BB/PDN/LDO - C432_E	0.75V
VSW_SMPS6 - SEGUIR(SMPS1)	0.75V
VSW_SMPS7 - BB/PDN/LDO - C433_E	0.75V

PP_1V2_LDO1 - C511_E	1.2V
PP_1V1_LDO2 - C512_E	1.1V
PP_0V8_LDO3 - C513_E	0.8V
PP_0V875_LDO4 - C514_E	0.87V

PP_1V8_LDO5 - C515_E	1.8V
PP_1V8_LDO6 - C516_E	1.8V
PP_0V8_LDO7 - C522_E	0.8V

PP_0V8_LDO8 - C517_E	0.8V
PP_0V8_LDO9 - C518_E	3.1V
PP_3V1_LDO10 - C501_E	0.6V

PP_0V6_LDO14 - C523_E	0.5V
PP_1V2_LDO12 - C524_E	1.2V
PP_1V2_LDO15 - C525_E	1.2V
PP_1V7_LDO16 - C526_E	1.7V

1.89V / 0.20mA	Ω
2.40V / 0.80mA	Ω
2.52V / 0.93mA	Ω
2.90V / 1.43mA	Ω
2.53V / 0.95mA	Ω
3.88V / 2.64mA	Ω
2.40V / 0.80mA	Ω
3.50V / 2.18mA	Ω
2.85V / 1.34mA	Ω
2.71V / 1.17mA	Ω
2.86V / 1.35mA	Ω
3.40V / 2.00mA	Ω
2.30V / 0.67mA	Ω
3.15V / 1.72mA	Ω
2.45V / 0.85mA	Ω
3.48V / 2.13mA	Ω
2.05V / 0.38mA	Ω
2.16V / 0.50mA	Ω
3.40 / 2.00mA	Ω
2.00V / 0.32mA	Ω
2.40V / 0.79mA	Ω
2.88V / 1.38mA	Ω

⚠ LEITURA EFETUADA EM BOARD RF DESMONTADA ⚠

**VDD_IC's
BOARD RF
(DESMONTADA)**

U_BB_E
CPU_BB
PMB_9948

VIDEO EXEMPLO COMO
SEPARAR INTERPOSER

