**List Components**

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| **Name Board:** MagnetDigitizer32 (prototipo 1) | **File:** 32BVer0 |
| **Date:** 29/06/21 | **# Layers:** 2 |

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| **Item** | **Qty** | **Reference** | **Description** |
| 1 | 29 | C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,  C13,C14,C15,C16,C17,C18,C34,C35,C54,C56,  C58,C60,C64,C65,C66,C67,C8 | Capacitor cerámico 0.1uF/50V SMD-0603  (06035C104KAZ2A). Link1. |
| 2 | 9 | C19,C21,C23,C29,C32,C33,C48,C49,C50 | Capacitor cerámico 0.1uF/50V SMD-0402  (04025D104KAT2A). Link2. |
| 3 | 4 | C20,C22,C30,C31 | Capacitor cerámico 1uF/50V SMD-0402  (UMK105CBJ105MV-F). Link3. |
| 4 | 2 | C24,C25 | Capacitor cerámico 20pF/50V SMD-0402  (04025U200FAT2A). Link4. |
| 5 | 3 | C26,C27,C28 | Capacitor cerámico 330pF/50V SMD-0402  (04025C331KAT2A). Link5. |
| 6 | 6 | C38,C40,C43,C46,C52,C62 | Capacitor cerámico 10nF/50V SMD-0603  (06035C103MAT4A). Link6. |
| 7 | 12 | C36,C37,C39,C41,C42,C44,C45,C47,C51,C53,  C61,C63 | Capacitor cerámico 2.2uF/50V SMD-0603  (GRM188R61H225KE11D). Link7. |
| 8 | 3 | C55,C57,C59 | Capacitor tantalio 10uF/20V SMD-1206  (F931D106MAA). Link8. |
| 9 | 8 | R1,R3,R5,R7,R9,R11,R13,R15 | Resistencia 10KΩ/1/4W SMD-0603  (ESR03EZPJ103). Link9. |
| 10 | 8 | R2,R4,R6,R8,R10,R12,R14,R16 | Resistencia 1MΩ/1/4W SMD-0603  (CMP0603-FX-1004ELF). Link10. |
| 11 | 26 | R17,R18,R19,R20,R21,R22,R23,R24.R25,R26,  R27,R28,R29,R30,R31,R32,R33,R34,R35,R36,  R39,R40,R41,R42,R43,R44 | Resistencia 300Ω/1/4W SMD-0603  (ERJ-PA3J301V). Link11. |
| 12 | 3 | R37,R45,R46 | Resistencia 1KΩ/1/4W SMD-0603  (ESR03EZPF1001). Link12. |
| 13 | 1 | R38 | Resistencia 0Ω SMD-0603  (SFR03EZPJ000). Link13. |
| 14 | 2 | D1,D2 | Arreglo diodo Zener 3V SMD-SOT23  (DZ23C3V0-7-F). Link14. |
| 15 | 4 | D3,D4,D5,D6 | Diodo TVS 15V bidireccional SMD-DO214AA  (SMBJ15CATR). Link15. |
| 16 | 1 | IC1 | Multiplexor dual analógico 8x2 SMD-28SSOP  (MAX337EAI+). Link16. |
| 17 | 2 | IC2,IC3 | Interruptor analógico SMD-8SOIC  (DG419DY+). Link 17. |
| 18 | 1 | IC4 | Aislador digital 10Mbits SMD-16SOIC  (ADUM1400WTRWZ). Link18. |
| 19 | 1 | IC5 | Conversor A/D 32bits SMD-24TSSOP  (AD7177-2BRUZ). Link19. |
| 20 | 1 | IC6 | Voltaje de referencia 2.5V SMD-8SOIC  (ADR4525WBRZ-R7). Link20. |
| 21 | 1 | IC7 | Aislador digital 10Mbits SMD-16SOIC  (ADUM1401WTRWZ). Link21. |
| 22 | 2 | IC8,IC15 | Regulador lineal de voltaje 2.5V/250mA SMD-SOT23-5. (REG102NA-2.5/250). Link22. |
| 23 | 1 | IC9 | Regulador lineal de voltaje -2.5V/200mA SMD-SOT23-5. (TPS72325DBVT). Link23. |
| 24 | 3 | IC10,IC11,IC12 | Regulador lineal de voltaje 3.3V/250mA SMD-SOT23-5. (TPS73433DDCT). Link24. |
| 25 | 1 | IC13 | Compuerta digital OR SMD-SOT23-5. (NC7SZ32M5X). No STOCK. |
| 26 | 1 | IC16 | Adaptador de niveles para RS232 SMD-16SOIC. (MAX3232EEWE+). Link25. |
| 27 | 1 | LED1 | Diodo LED rojo SMD-1206. (XZM2CRK55W-3). Link26. |
| 28 | 1 | LED2 | Diodo LED verde SMD-1206. (XZDGK55W-3). Link27. |
| 29 | 6 | F1,F2,F3,F4,F5,F6 | Filtro LC 1500pF SMD-1206. (NFE31PT152Z1E9L). Link28. |
| 30 | 1 | XTAL | Oscilador de cristal 16MHz/20pF SMD-HC49. (ABLS-16.000MHZ-20-D4H-T). Link29. |
| 31 | 1 | GPS | Conector cable FLEX-FFC SMD. (84981-8). Link30. |
| 32 | 4 | GAP1, GAP2, GAP3, GAP4 | Tubos de descarga 75V/20KA. (CG75L). Link31. |
| 33 | 1 | IC14 | Conversor DC/DC 5V+/-5V/200mA. (NTH0505MC). Link32. |
| 34 | 1 | ANALOG\_INPUT | Conector DB25 hembra/PCB. (D25S13A4GV00LF). Link33. |
| 35 | 1 | 1PPS, COM1, LOG | Espadines machos (61302011121). Link34. |
| 36 | 1 | MOD1 | Espadines machos 2x40 pines. (4-102973-0-20). Link35. |
| 37 | 1 |  | Marco de cobertor EMI. (BMI-S-230-F-R). Link36. |
| 34 | 1 |  | Tapa de cobertor EMI. (BMI-S-230-C). Link37. |
| 35 | 1 |  | Cable FLEX 1MMx8. (AFFC-100-08-203-11). Link38. |
| 36 | 1 |  | Espadines hembra 2x40 pines. (SSQ-120-03-F-D). Link39. |

Link1: <https://www.digikey.com/en/products/detail/avx-corporation/06035C104KAZ2A/1024797>

Link2: <https://www.digikey.com/en/products/detail/avx-corporation/04025D104KAT2A/9748450>

Link3: <https://www.digikey.com/en/products/detail/taiyo-yuden/UMK105CBJ105MV-F/7403871>

Link4: <https://www.digikey.com/en/products/detail/avx-corporation/04025U200FAT2A/3079983>

Link5: <https://www.digikey.com/en/products/detail/avx-corporation/04025C331KAT2A/563205>

Link6: <https://www.digikey.com/en/products/detail/avx-corporation/06035C103MAT4A/1600042>

Link7: <https://www.digikey.com/en/products/detail/murata-electronics/GRM188R61H225KE11D/4905363>

Link8: <https://www.digikey.com/en/products/detail/avx-corporation/F931D106MAA/4005110>

Link9: <https://www.digikey.com/en/products/detail/rohm-semiconductor/ESR03EZPJ103/1762722>

Link10: <https://www.digikey.com/en/products/detail/bourns-inc/CMP0603-FX-1004ELF/12333618>

Link11: <https://www.digikey.com/en/products/detail/panasonic-electronic-components/ERJ-PA3J301V/5036036>

Link12: <https://www.digikey.com/en/products/detail/rohm-semiconductor/ESR03EZPF1001/1983428>

Link13: <https://www.digikey.com/en/products/detail/rohm-semiconductor/SFR03EZPJ000/9771856>

Link14: <https://www.digikey.com/en/products/detail/diodes-incorporated/DZ23C3V0-7-F/815051>

Link15: <https://www.digikey.com/en/products/detail/smc-diode-solutions/SMBJ15CATR/6022715>

Link16: <https://www.digikey.com/en/products/detail/maxim-integrated/MAX337EAI/1701590>

Link17: <https://www.digikey.com/en/products/detail/maxim-integrated/DG419DY/947721>

Link18: <https://www.digikey.com/en/products/detail/analog-devices-inc/ADUM1400WTRWZ/1873641>

Link19: <https://www.digikey.com/en/products/detail/analog-devices-inc/AD7177-2BRUZ/5268111?s=N4IgTCBcDaIIIBEDsBGJSC0YBCAlAqgFoYByCIAugL5A>

Link20: <https://www.digikey.com/en/products/detail/analog-devices-inc/ADR4525WBRZ-R7/7932007>

Link21: <https://www.digikey.com/en/products/detail/analog-devices-inc/ADUM1401WTRWZ/1873715>

Link22: <https://www.digikey.com/en/products/detail/texas-instruments/REG102NA-2-5-250/362335>

Link23: <https://www.digikey.com/en/products/detail/texas-instruments/TPS72325DBVT/604375>

Link24: <https://www.digikey.com/en/products/detail/texas-instruments/TPS73433DDCT/2170382>

Link25: <https://www.digikey.com/en/products/detail/maxim-integrated/MAX3232EEWE/1512208>

Link26: <https://www.digikey.com/en/products/detail/sunled/XZM2CRK55W-3/4901982>

Link27: <https://www.digikey.com/en/products/detail/sunled/XZDGK55W-3/4901933>

Link28: <https://www.digikey.com/en/products/detail/murata-electronics/NFE31PT152Z1E9L/2595135>

Link29: <https://www.digikey.com/en/products/detail/abracon-llc/ABLS-16-000MHZ-20-D4H-T/9997765>

Link30: <https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/84981-8/2180518>

Link31: <https://www.digikey.com/en/products/detail/littelfuse-inc/CG75L/950206?s=N4IgTCBcDaIGJgOxgGwFoByAREBdAvkA>

Link32: <https://www.digikey.com/en/products/detail/murata-power-solutions-inc/NTH0505MC/1927250>

Link33: <https://www.digikey.com/en/products/detail/amphenol-icc-fci/D25S13A4GV00LF/1001821>

Link34: <https://www.digikey.com/en/products/detail/w%C3%BCrth-elektronik/61302011121/4846860>

Link35: <https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/4-102973-0-20/291885>

Link36: <https://www.digikey.com/en/products/detail/laird-technologies-emi/BMI-S-230-F-R/3915246?s=N4IgTCBcDaIEIFkCSBaAyisBmADCgYigEogC6AvkA>

Link37: <https://www.digikey.com/en/products/detail/laird-technologies-emi/BMI-S-230-C/3915247?s=N4IgTCBcDaIJwAYDMBaAjAFgOxpQOQBEQBdAXyA>

Link38: <https://www.digikey.com/en/products/detail/assmann-wsw-components/AFFC-100-08-203-11/6570422>

Link39: <https://www.digikey.com/en/products/detail/samtec-inc/SSQ-120-03-F-D/8094895>