Bill of Materials Microsemi Low Cost Board_Rev1.prjpcb te Data From: Microsemi Low Cost Board_Rev1.prjpcb ct: Microsemi Low Cost Board_Rev1.prjpcb nt: Microsemi LoCostB R1 Designator
C1, C2, C3, C4, C5, C6, C7, C8, C14,
C15, C16, C17, C23, C24, C25, C27,
C28, C29, C30, C31, C32, C33, C34,
C35, C38, C41, C50, C64, C108, C113,
C114, C115, C116, C117, C118, C119,
C120, C121, C123, C124, C125, C127,
C129, C131, C133, C134, C137
 Future PN (CT)
 Future PN (TR)

 04025C104KATN
 Fitted
 Item# Quantity
 Value
 Footprint
 Description

 n
 0402(C1005)L
 Cap 0402 SM X7R 50V 10%
 MFR MFR PN C1005X7R1H104K 04023A180JATN-CT TBD C10, C11, C72, C73 C12, C13 Cap 0402 SM COG 25V 5% Cap 0402 SM X5R 10V 20% 04023A180JATN TBD 04023A180JAT2A CL05A475MP5NRNC 3 SAMSLING 04023C103JATN-CT C12, C13 C18, C19, C20, C21, C22, C111 C26, C94, C95, C96, C112, C135, CC0402JRX7R8BB10 04023C103JATN Cap 0402 SM X7R 25V 5% Cap 0402 SM X5R 10V ±20% YAGEO SAMSUNG 1206(C3216)L Cap-1206-SM-X7R-2kV-10% 206GC102KAT1A 1206GC102KATM 1206GC102KATM-CT 0603(C1608)L 0402(C1005)L Cap 0603 SM X5R 25V 20% Cap 0402 SM NPO 50V 5% SAMSUNG MURATA CL10A106MA8NRNC GRM1555C1H330JZ01D- obsolote in 06033D106MATN 04025A330JATN Fitted Fitted 7 TBD 04025A330JATN-CT 013 206ZD226MAT2A Cap 1206 SM X5R 10V 20% Cap 0201 SM X7R 10V 10% Cap 0603 SM X5R 10V 10% Cap 0603 SM X5R 6.3V 20% Cap 0603 SM X5R 6.3V 20% 206(C3216)L 206ZD226MATN 0201ZC103KATN-C SAMSUNG FDK Cap 0402 SM NPO 25V 5%
Cap 1206 SM X5R 6.3V 20%
Cap 0402 SM X5R 10V ±20%
Cap 0402 SM X5R 10V ±20%
Cap 1205 SM X5R 6.3V 10%
Connector 1 Row Vert TH 1x8 2.54mm Socket Header C48, C67 C68, C69, C70, C71 23A220JATN-CT 04023A220JATN 12066D107MATN MURATA C97 J1, J2, J5, J6 17 18 1206(C3216)L HDR100-8PIN-TH-AVX SULLINS PPTC081LFBN-RC 12066D476MATN SBQ-8P-S-100-T Socket J-USB-MICRO-B-RA 19 nnector USB 2.0 Micro B.BA Bot. Mount SM 1x5no ISB3075-30-A ISB-MICB-ST-SMT-S itted M2-SLOT HDR100-6PIN-20 Connector 1 Row Vert TH 1v6 2 54mm Socks SHLLING PPTC061LERN_RC TRN PPTC061LERN Fitted /ERT-TH-Socket HDR100-10PIN-Connector 1Row Vert TH 1x10 2.54mm Socket Heade 21 SULLINS PTC101LFBN-R0 PTC101LFBN-RC VERT-TH-Socket HDR100-2x6-RA-Connector 2Row RA TH 2x6 2.54mm Socket Header 22 SULLINS PPTC062LJBN-RC PPTC062LJBN-RC Fitted Socket-TH 0805(R2012)N-Ind 23 11.12 Perrite Beart 330nhm@100MHz 0.09Ohm 1.5A 0805 MURATA BI M21PG331SN1 BLM21P331SGPT-CT BLM21P331SGPT Fitted L3, L4, L5 LED1, LED2 LED3, LED4 Hz 0.68uH RG LED GRN LED IDSMD3.6X3.0 INDUCTOR POWER 0.68uH 5.5A 17mOhm SMD LED, RedGreen LED SMD 3.5x2.5mm Diode, Led, Green, 2.1V. 25mA IHLP1212BZERR68M11 APB3025ESGC-F01 SML-LX0603GW-TR HLP1212BZERR68M11-CT HLP1212BZERR68M11-CT i-Col_KingB 603(R1608)LED SML-LX0603GW-TR-CT SML-LX0603GW-TR 1E13, LED4 R11, R9 R10, R23, R24, R25, R26, R51, R52, R55, R57 R11, R44, R45, R48, R97 R12, R13, R14, R17, R21, R22 R16, R29, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R81, R83, R85, R87, R89, R90, YAGEO 27 28 Res 0402 SM 63mW 1% 100ppm Res 0402 SM 63mW 1% 100ppm RC0402FR-0712KL RC0402FR-071KL CR0402-1202FTR-CT CR0402-1001FTR-CT CR0402-1202FTR CR0402-1001FTR Fitted Res 0402 SM 63mW Res 0402 SM 63mW 1% 100ppm Res 0402 SM 63mW 1% 100ppm CRCW04020000Z0EE RC0402FR-074K7L RC0402FR-0749R9L CR0402-0000JTR-CT CR0402-4701FTR-CT CR0402-49R9FTR-CT 29 402(R1005)L R0402-0000JTR R92 R18 R2, R3, R4, R6, R7, R8, R15, R19, CR0402-22R0FTR CR0402-1002FTR 32 33 0402(R1005)L RC0402FR-0722RL RC0402FR-0710KL CR0402-22R0FTR-CT CR0402-1002FTR-CT Res 0402 SM 63mW 1% 100ppm Res 0402 SM 63mW 1% 100ppm YAGEO YAGEO Fitted Fitted CR1206-1004FTR-C1 CR0402-2001FTR-C1 CR0201-1002FTR-C1 CR0402-1003FTR-C1 H20 R27 R28, R34 R30 R31, R36, R39, R41, R46, R49, R95, Res 1206 SM 250mW 1% 100ppm R1206-1004FTF 34 206(R3216)L YAGEO RC1206FR-071ML Fitted Res 0402 SM 63mW 1% 100ppm Res 0201 SM 50mW 1% 200ppm Res 0402 SM 63mW 1% 100ppm RC0402FR-072KL RC0201FR-0710KL RC0402FR-07100H R96 R32, R38, R47 0603(R1608)I 0402(R1005)I 0402(R1005)I 0402(R1005)I RC0603FR-0710RL RC0402FR-07158KI RC0402FR-0734K8I RC0402FR-071RL CR0603-10R0FTR-CT CR0402-1583FTR-CT CR0402-3482FTR-CT TBD CR0603-10R0FTF CR0402-1583FTR CR0402-3482FTR CR0402-1R00FTF Res 0603 SM 100mW 1% 100ppm Res 0402 SM 63mW 1% 100ppm YAGEO Res 0402 SM 63mW 1% 100ppm Res 0402 SM 63mW 1% 100ppm R35 R37, R40, R42 Fitted 0402(R1005)L 0402(R1005)L 0402(R1005)L 0402(R1005)L 0402(R1005)L 0603(R1608)L SW-TAC-J-SMD BGA256_14X14n Res 0402 SM 63mW 1% 100ppm Res 0603 SM 100mW RC0402FR-071FL RC0402FR-07150RL RC0402FR-072K2L RC0402FR-0749K9L RC0402FR-07100RL MCR03EZPJ000 KSC222JI FS CR0402-1500FTR-CT CR0402-2201FTR-CT CR0402-1R00FTF CR0402-1500FTR CR0402-2201FTR CR0402-4992FTR CR0402-1000FTR CR0603-0000JTR CR0402-2201FTR-CT CR0402-4992FTR-CT CR0402-1000FTR-CT CR0603-0000JTR-R-C KSC222JLFS TBD Fitted Fitted Fitted Fitted R94 SW1, SW2, SW3 OR SPST Mo KSC222JLFS M2GL025-VF256 Switch Momentary Tac SPST SMD J leads FPGA Flash PCIe BGA256 SM 1.14-1.26Vop 400MHz C&K MICROSEM KSC222JLFS M2GL025-VF256

SST26VF064B-104VSM

AS4C32M16D2A-25BCN

XRP2997IDBTR-F

USBLC6-2SC6

FT4232HL-REEL

APY803-31SAG-7

MCP3903-E/SS

LX7167ACLD-TR

ABS07-32 768KHZ-T

ABM8G-12.000MHZ-18-D2\ CO4310-50.000-T-TR

ALIANCE

FTDI

DIODES

MICROCHI

MICROSEMI

TBD

TRN

XRP2997IDBTR-CT

USBLC6-2SC6-CT

32 768K-CM315-CT

25WQ6401WSOI

KRP2997IDBTR-F

SBLC6-2SC6

T4232HL-R

PY803.31SAG.

ICP3903-E/SS

X7167ACLD-TR

12.0000M-ABM8GT

32 768K-CM315

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3.3Vin Fiming Crystal ABS07 SM 32.768KHz ±20 ppm 12.5pF ABRACON

mory Flash Serial SQI SOIJ8 SM 2.5-3.0Vop 64Mbit MICROCHIP

104MHz PMIC LDO Bur Termination Reg SPAK-7 SM 1.1-5.5Vin EXAR

protection Memory DDR2 Synchronous DRAM BGA 84 SM 1.8Vop 512MBit (32M x 16) 400Mhz Interface USB to UART Quad HSpeed LQFP64 SM

1.62-1.98Vcore 12-480MHz Interface 3Pin MCU Reset Open-Drain SOT23 SM

8.08V Monitor Analog Converter A/D TSSOP28 SM 4.5-5.5AVdd 2.7-

SINGUG 64Ksps
Memory EEPROM MicroWire SO8 SM 2.5-5.5Vop 1Kb 2MHz
PMIC Buck Hysteretic Sync Reg Const Freq UDFN8

SM 3.0-5.5Vop 3MHz
Crystal, 12.000MHz ABM8 SMD
Timing Oscillator CO43 SM 50.000MHz ±100 PPM

I 8Rdschg JSB Nus protector Very low capa

SOU8

SOP8 - EPad

OT23_6

GA84

OT23

SOP28

JDFN8

ABM8 CO43

ABS07

QFP64 M

49

50

51

52

53

54

57

58 59

60

U10

U12

U8, U9, U11