









Project:  Variant:  Creation Date:  Croation Date:  Comment  Comment  Composition  Farnell PN  Conposition  Farnell PN  Conposition  Composition  Farnell PN  Conposition  Composition  Farnell PN  Conposition  Composition  Farnell PN  Conposition  Farnell PN  Conposition  Composition  Farnell PN  Conposition  Farnell PN  Farnell PN  Conposition  Farnell PN  Conposition  Farnell PN  Farnel	Section Date:   Section Date	Project:  Variant:  Creation Date: 20/10/2010  Print Date: 20-Oct-10  Footprint Comment  CCNP2012-0805 100nF  CCNP2012-0805 18pF  TC3528-1411 10uF/10V  CCNP2012-0805 470nF  LED Greer  USB_TypeA M - SMT2 USB_CON  HDR2X3 Transition  CR2012-0805 33R  CR2012-0805 100K  CR2012-0805 100K  CR2012-0805 145  CR2012-0805 17R  CR2012-0805 17R  CR2012-0805 17R  CR2012-0805 17R  CR2012-0805 17R  CR2012-0805 17R  CR2012-0805 680R  SO-14_L 74LV125A  SO-G20 MC9S08JS  XTAL_SMT 12MHz	Bill of Materials		USBDM_SOIC2	USBDM_SOIC20_JS16(Minimal)			
Variant:         None           Creation Date:         20/10/2010         6:34:27 PM           Print Date:         20-Oct-10         6:34:30 PM           Footprint         Comment         Farnell PN           CCNP2012-0805         100nF         8820120           CCNP2012-0805         18pF         1414673           TC3528-1411         10uF/10V         9527745           CCNP2012-0805         470nF         1288279           LED-SMT-2         LED Green         5790852           USB_TypeA M - SMT2         USB_CONNECTOR         1308875           HDR2X3         Transition 3x2         1188909           CR2012-0805         33R         1631399           CR2012-0805         100K         9332405           CR2012-0805         1k5         1632464           CR2012-0805         1M         9236392           CR2012-0805         1M         9236392           CR2012-0805         680R         9334785           SO-14_L         74LV125AD         9592504           SO-G20         MC9S08JS16CWJ         1704517	None	Variant:         20/10/2010           Creation Date:         20/10/2010           Print Date:         20-Oct-10           Footprint         Comment           CCNP2012-0805         100nF           CCNP2012-0805         18pF           TC3528-1411         10uF/10V           CCNP2012-0805         470nF           LED-SMT-2         LED Green           USB_CON         HDR2X3           CR2012-0805         33R           CR2012-0805         100K           CR2012-0805         1k5           CR2012-0805         47R           CR2012-0805         1M           CR2012-0805         680R           SO-14_L         74LV125A           SO-G20         MC9S08JS           XTAL_SMT         12MHz           SOT23         PESD5V0	ata From:	_					
Variant:         None           Creation Date:         20/10/2010         6:34:27 PM           Print Date:         20-Oct-10         6:34:30 PM           Footprint         Comment         Farnell PN           CCNP2012-0805         100nF         8820120           CCNP2012-0805         18pF         1414673           TC3528-1411         10uF/10V         9527745           CCNP2012-0805         470nF         1288279           LED-SMT-2         LED Green         5790852           USB_TypeA M - SMT2         USB_CONNECTOR         1308875           HDR2X3         Transition 3x2         1188909           CR2012-0805         33R         1631399           CR2012-0805         100K         9332405           CR2012-0805         1k5         1632464           CR2012-0805         47R         1632490           CR2012-0805         1M         9236392           CR2012-0805         680R         9334785           SO-14_L         74LV125AD         9592504           SO-G20         MC9S08JS16CWJ         1704517	None	Footprint         Comment           CCNP2012-0805         100nF           CCNP2012-0805         18pF           TC3528-1411         10uF/10V           CCNP2012-0805         470nF           LED-SMT-2         LED Green           USB_TypeA M - SMT2         USB_CON           HDR2X3         Transition           CR2012-0805         100K           CR2012-0805         100K           CR2012-0805         100K           CR2012-0805         147R           CR2012-0805         1M           CR2012-0805         680R           SO-14_L         74LV125A           SO-G20         MC9S08JS           XTAL_SMT         12MHz           SOT23         PESD5V0							
Front Date:         20-Oct-10         6:34:30 PM           Footprint         Comment         Farnell PN           CCNP2012-0805         100nF         8820120           CCNP2012-0805         18pF         1414673           TC3528-1411         10uF/10V         9527745           CCNP2012-0805         470nF         1288279           LED-SMT-2         LED Green         5790852           USB_TypeA M - SMT2         USB_CONNECTOR         1308875           HDR2X3         Transition 3x2         1188909           CR2012-0805         33R         1631399           CR2012-0805         100K         9332405           CR2012-0805         1k5         1632464           CR2012-0805         47R         1632490           CR2012-0805         1M         9236392           CR2012-0805         1M         9236392           CR2012-0805         680R         9334785           SO-14_L         74LV125AD         9592504           SO-G20         MC9S08JS16CWJ         1704517	Companies   Comp	Footprint         Comment           CCNP2012-0805         100nF           CCNP2012-0805         18pF           TC3528-1411         10uF/10V           CCNP2012-0805         470nF           LED-SMT-2         LED Greet           USB_TypeA M - SMT2         USB_CON           HDR2X3         Transition           CR2012-0805         33R           CR2012-0805         100K           CR2012-0805         1k5           CR2012-0805         47R           CR2012-0805         1M           CR2012-0805         680R           SO-14_L         74LV125A           SO-G20         MC9S08JS           XTAL_SMT         12MHz           SOT23         PESD5V0							
Print Date: 20-Oct-10 6:34:30 PM  Footprint Comment Farnell PN  CCNP2012-0805 100nF 8820120  CCNP2012-0805 18pF 1414673  TC3528-1411 10uF/10V 9527745  CCNP2012-0805 470nF 1288279  LED-SMT-2 LED Green 5790852  USB_TypeA M - SMT2 USB_CONNECTOR 1308875  HDR2X3 Transition 3x2 1188909  CR2012-0805 33R 1631399  CR2012-0805 100K 9332405  CR2012-0805 1k5 1632464  CR2012-0805 1M 9236392  CR2012-0805 680R 9334785  SO-14_L 74LV125AD 9592504  SO-G20 MC9S08JS16CWJ 1704517	Company   Comp	Print Date: 20-Oct-10  Footprint Comment  CCNP2012-0805 100nF  CCNP2012-0805 18pF  TC3528-1411 10uF/10V  CCNP2012-0805 470nF  LED-SMT-2 LED Greet  USB_TypeA M - SMT2 USB_CON  HDR2X3 Transition  CR2012-0805 33R  CR2012-0805 100K  CR2012-0805 1k5  CR2012-0805 47R  CR2012-0805 1M  CR2012-0805 1M  CR2012-0805 680R  SCR2012-0805 680R  SO-14_L 74LV125A  SO-G20 MC9S08JS  XTAL_SMT 12MHz  SOT23 PESD5V0							
Footprint Comment Farnell PN  CCNP2012-0805 100nF 8820120  CCNP2012-0805 18pF 1414673  TC3528-1411 10uF/10V 9527745  CCNP2012-0805 470nF 1288279  LED-SMT-2 LED Green 5790852  USB_TypeA M - SMT2 USB_CONNECTOR 1308875  HDR2X3 Transition 3x2 1188909  CR2012-0805 33R 1631399  CR2012-0805 100K 9332405  CR2012-0805 1k5 1632464  CR2012-0805 47R 1632490  CR2012-0805 1M 9236392  CR2012-0805 680R 9334785  SO-14_L 74LV125AD 9592504  SO-G20 MC9S08JS16CWJ 1704517	Comment   Farnell PN   Digikey   Designator   Description   Quantity	Footprint Comment  CCNP2012-0805 100nF  CCNP2012-0805 18pF  TC3528-1411 10uF/10V  CCNP2012-0805 470nF  LED-SMT-2 LED Greet  USB_TypeA M - SMT2 USB_CON  HDR2X3 Transition  CR2012-0805 33R  CR2012-0805 100K  CR2012-0805 10K5  CR2012-0805 47R  CR2012-0805 1M  CR2012-0805 680R  SCR2012-0805 680R  SO-14_L 74LV125A  SO-G20 MC9S08JS  XTAL_SMT 12MHz  SOT23 PESD5V0	ate: 20/10/2010	6:34:27 PM					
CCNP2012-0805 100nF 8820120 CCNP2012-0805 18pF 1414673 TC3528-1411 10uF/10V 9527745 CCNP2012-0805 470nF 1288279 LED-SMT-2 LED Green 5790852 USB_TypeA M - SMT2 USB_CONNECTOR 1308875 HDR2X3 Transition 3x2 1188909 CR2012-0805 33R 1631399 CR2012-0805 100K 9332405 CR2012-0805 1k5 1632464 CR2012-0805 47R 1632490 CR2012-0805 1M 9236392 CR2012-0805 680R 9334785 SO-14_L 74LV125AD 9592504 SO-G20 MC9S08JS16CWJ 1704517	CNP2012-0805   100nF	CCNP2012-0805 100nF CCNP2012-0805 18pF TC3528-1411 10uF/10V CCNP2012-0805 470nF LED-SMT-2 LED Greet USB_TypeA M - SMT2 USB_CON HDR2X3 Transition CR2012-0805 33R CR2012-0805 100K CR2012-0805 1k5 CR2012-0805 47R CR2012-0805 1M CR2012-0805 1M CR2012-0805 680R SO-14_L 74LV125A SO-G20 MC9S08JS XTAL_SMT 12MHz SOT23 PESD5V0	20-Oct-10	6:34:30 PM					
CCNP2012-0805     18pF     1414673       TC3528-1411     10uF/10V     9527745       CCNP2012-0805     470nF     1288279       LED-SMT-2     LED Green     5790852       USB_TypeA M - SMT2     USB_CONNECTOR     1308875       HDR2X3     Transition 3x2     1188909       CR2012-0805     33R     1631399       CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	CNP2012-0805   18pF	CCNP2012-0805 18pF TC3528-1411 10uF/10V CCNP2012-0805 470nF LED-SMT-2 LED Greer USB_TypeA M - SMT2 USB_CON HDR2X3 Transition CR2012-0805 33R CR2012-0805 100K CR2012-0805 1k5 CR2012-0805 47R CR2012-0805 1M CR2012-0805 680R SO-14_L 74LV125A SO-G20 MC9S08JS XTAL_SMT 12MHz SOT23 PESD5V0	Comment	Farnell PN	Digikey	Designator	Description	Quantity	
TC3528-1411     10uF/10V     9527745       CCNP2012-0805     470nF     1288279       LED-SMT-2     LED Green     5790852       USB_TypeA M - SMT2     USB_CONNECTOR     1308875       HDR2X3     Transition 3x2     1188909       CR2012-0805     33R     1631399       CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	C5, C6   Capacitor Polarized (SMT - Case A)   2	TC3528-1411 10uF/10V CCNP2012-0805 470nF LED-SMT-2 LED Greer USB_TypeA M - SMT2 USB_CON HDR2X3 Transition CR2012-0805 33R CR2012-0805 100K CR2012-0805 1k5 CR2012-0805 47R CR2012-0805 1M CR2012-0805 680R SO-14_L 74LV125A SO-G20 MC9S08JS XTAL_SMT 12MHz SOT23 PESD5V0	2-0805 100nF	8820120			Capacitor SMT	2	
CCNP2012-0805     470nF     1288279       LED-SMT-2     LED Green     5790852       USB_TypeA M - SMT2     USB_CONNECTOR     1308875       HDR2X3     Transition 3x2     1188909       CR2012-0805     33R     1631399       CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	CNP2012-0805	CCNP2012-0805       470nF         LED-SMT-2       LED Greer         USB_TypeA M - SMT2       USB_CON         HDR2X3       Transition         CR2012-0805       33R         CR2012-0805       100K         CR2012-0805       1k5         CR2012-0805       47R         CR2012-0805       1M         CR2012-0805       680R         SO-14_L       74LV125A         SO-G20       MC9S08JS         XTAL_SMT       12MHz         SOT23       PESD5V0	2-0805 18pF	1414673			Capacitor SMT	2	
LED-SMT-2     LED Green     5790852       USB_TypeA M - SMT2     USB_CONNECTOR     1308875       HDR2X3     Transition 3x2     1188909       CR2012-0805     33R     1631399       CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	LED Green   5790852   D1   LED (Green SMT)   1   1   1   1   1   1   1   1   1	LED-SMT-2 LED Greet USB_TypeA M - SMT2 USB_CON HDR2X3 Transition CR2012-0805 33R CR2012-0805 100K CR2012-0805 1k5 CR2012-0805 47R CR2012-0805 1M CR2012-0805 680R SO-14_L 74LV125A SO-G20 MC9S08JS XTAL_SMT 12MHz SOT23 PESD5V0	11 10uF/10V	9527745		C5, C6	Capacitor Polarized (SMT - Case A)	2	
USB_TypeA M - SMT2	SB_TypeA M - SMT2	USB_TypeA M - SMT2	2-0805 470nF	1288279		C8		1	
HDR2X3     Transition 3x2     1188909       CR2012-0805     33R     1631399       CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	DR2X3         Transition 3x2         1188909         P2         2x3 Transition or male header         1           R2012-0805         33R         1631399         R1, R2         Resistor SMT         2           R2012-0805         100K         9332405         R3, R5         Resistor SMT         2           R2012-0805         1k5         1632464         R4         Resistor SMT         1           R2012-0805         47R         1632490         R6, R8         Resistor SMT         2           R2012-0805         1M         9236392         R7         Resistor SMT         1           R2012-0805         680R         9334785         R10         Resistor SMT         1           D-14_L         74LV125AD         9592504         296-1674-5-ND         U1         Quad 3-state Buffer         1           D-G20         MC9S08JS16CWJ         1704517         U2         Microcontroller with USB         1           AL_SMT         12MHz         1652551         Y1         Crystal (Low profile SMT)         1           DT23         PESD5V0S2UAT         8737738         Z1         Dual Unipolar Protection Device (5V)         1	HDR2X3 Transition CR2012-0805 33R CR2012-0805 100K CR2012-0805 1k5 CR2012-0805 47R CR2012-0805 1M CR2012-0805 680R SO-14_L 74LV125A SO-G20 MC9S08JS XTAL_SMT 12MHz SOT23 PESD5V0	2 LED Green	5790852			LED (Green SMT)	1	
CR2012-0805     33R     1631399       CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	R2012-0805   33R	CR2012-0805     33R       CR2012-0805     100K       CR2012-0805     1k5       CR2012-0805     47R       CR2012-0805     1M       CR2012-0805     680R       SO-14_L     74LV125A       SO-G20     MC9S08J8       XTAL_SMT     12MHz       SOT23     PESD5V0	A M - SMT2 USB_CONNECTOR	1308875		P1	USB Connector	1	
CR2012-0805     100K     9332405       CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	R2012-0805       100K       9332405       R3, R5       Resistor SMT       2         R2012-0805       1k5       1632464       R4       Resistor SMT       1         R2012-0805       47R       1632490       R6, R8       Resistor SMT       2         R2012-0805       1M       9236392       R7       Resistor SMT       1         R2012-0805       680R       9334785       R10       Resistor SMT       1         O-14_L       74LV125AD       9592504       296-1674-5-ND       U1       Quad 3-state Buffer       1         O-G20       MC9S08JS16CWJ       1704517       U2       Microcontroller with USB       1         CAL_SMT       12MHz       1652551       Y1       Crystal (Low profile SMT)       1         DT23       PESD5V0S2UAT       8737738       Z1       Dual Unipolar Protection Device (5V)       1	CR2012-0805     100K       CR2012-0805     1k5       CR2012-0805     47R       CR2012-0805     1M       CR2012-0805     680R       SO-14_L     74LV125A       SO-G20     MC9S08J8       XTAL_SMT     12MHz       SOT23     PESD5V0	Transition 3x2	1188909			2x3 Transition or male header	1	
CR2012-0805     1k5     1632464       CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	R2012-0805       1k5       1632464       R4       Resistor SMT       1         R2012-0805       47R       1632490       R6, R8       Resistor SMT       2         R2012-0805       1M       9236392       R7       Resistor SMT       1         R2012-0805       680R       9334785       R10       Resistor SMT       1         D-14_L       74LV125AD       9592504       296-1674-5-ND       U1       Quad 3-state Buffer       1         D-G20       MC9S08JS16CWJ       1704517       U2       Microcontroller with USB       1         TAL_SMT       12MHz       1652551       Y1       Crystal (Low profile SMT)       1         DT23       PESD5V0S2UAT       8737738       Z1       Dual Unipolar Protection Device (5V)       1	CR2012-0805     1k5       CR2012-0805     47R       CR2012-0805     1M       CR2012-0805     680R       SO-14_L     74LV125A       SO-G20     MC9S08J8       XTAL_SMT     12MHz       SOT23     PESD5V0		1631399			Resistor SMT	2	
CR2012-0805     47R     1632490       CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	R2012-0805       47R       1632490       R6, R8       Resistor SMT       2         R2012-0805       1M       9236392       R7       Resistor SMT       1         R2012-0805       680R       9334785       R10       Resistor SMT       1         D-14_L       74LV125AD       9592504       296-1674-5-ND       U1       Quad 3-state Buffer       1         D-G20       MC9S08JS16CWJ       1704517       U2       Microcontroller with USB       1         TAL_SMT       12MHz       1652551       Y1       Crystal (Low profile SMT)       1         DT23       PESD5V0S2UAT       8737738       Z1       Dual Unipolar Protection Device (5V)       1         23	CR2012-0805       47R         CR2012-0805       1M         CR2012-0805       680R         SO-14_L       74LV125A         SO-G20       MC9S08J8         XTAL_SMT       12MHz         SOT23       PESD5V0	305 100K	9332405		R3, R5	Resistor SMT	2	
CR2012-0805     1M     9236392       CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	R2012-0805         1M         9236392         R7         Resistor SMT         1           R2012-0805         680R         9334785         R10         Resistor SMT         1           O-14_L         74LV125AD         9592504         296-1674-5-ND         U1         Quad 3-state Buffer         1           O-G20         MC9S08JS16CWJ         1704517         U2         Microcontroller with USB         1           CAL_SMT         12MHz         1652551         Y1         Crystal (Low profile SMT)         1           OT23         PESD5V0S2UAT         8737738         Z1         Dual Unipolar Protection Device (5V)         1           23	CR2012-0805     1M       CR2012-0805     680R       SO-14_L     74LV125A       SO-G20     MC9S08J8       XTAL_SMT     12MHz       SOT23     PESD5V0		1632464			Resistor SMT	1	
CR2012-0805     680R     9334785       SO-14_L     74LV125AD     9592504       SO-G20     MC9S08JS16CWJ     1704517	R2012-0805       680R       9334785       R10       Resistor SMT       1         O-14_L       74LV125AD       9592504       296-1674-5-ND       U1       Quad 3-state Buffer       1         O-G20       MC9S08JS16CWJ       1704517       U2       Microcontroller with USB       1         CAL_SMT       12MHz       1652551       Y1       Crystal (Low profile SMT)       1         OT23       PESD5V0S2UAT       8737738       Z1       Dual Unipolar Protection Device (5V)       1         23	CR2012-0805       680R         SO-14_L       74LV125A         SO-G20       MC9S08J8         XTAL_SMT       12MHz         SOT23       PESD5V0				R6, R8	Resistor SMT	2	
SO-14_L       74LV125AD       9592504         SO-G20       MC9S08JS16CWJ       1704517	0-14_L       74LV125AD       9592504       296-1674-5-ND       U1       Quad 3-state Buffer       1         0-G20       MC9S08JS16CWJ       1704517       U2       Microcontroller with USB       1         FAL_SMT       12MHz       1652551       Y1       Crystal (Low profile SMT)       1         DT23       PESD5V0S2UAT       8737738       Z1       Dual Unipolar Protection Device (5V)       1         23	SO-14_L       74LV125A         SO-G20       MC9S08J8         XTAL_SMT       12MHz         SOT23       PESD5V0	305 1M	9236392			Resistor SMT	1	
SO-G20 MC9S08JS16CWJ 1704517	D-G20     MC9S08JS16CWJ     1704517     U2     Microcontroller with USB     1       CAL_SMT     12MHz     1652551     Y1     Crystal (Low profile SMT)     1       DT23     PESD5V0S2UAT     8737738     Z1     Dual Unipolar Protection Device (5V)     1       23	SO-G20         MC9S08J8           XTAL_SMT         12MHz           SOT23         PESD5V0	805 680R	9334785		R10	Resistor SMT	1	
	FAL_SMT         12MHz         1652551         Y1         Crystal (Low profile SMT)         1           DT23         PESD5V0S2UAT         8737738         Z1         Dual Unipolar Protection Device (5V)         1           23         23	XTAL_SMT 12MHz SOT23 PESD5V0	74LV125AD	9592504	296-1674-5-ND		Quad 3-state Buffer	1	
	DT23         PESD5V0S2UAT         8737738         Z1         Dual Unipolar Protection Device (5V)         1           23         23	SOT23 PESD5V0	MC9S08JS16CWJ	1704517		U2	Microcontroller with USB	1	
	23							1	
SOT23 PESD5V0S2UAT 8737738		Approved	PESD5V0S2UAT	8737738		Z1	Dual Unipolar Protection Device (5V)		
Approved Notes				Notes				23	