【 部品表 】 NT2400R56-2Arev1.2部品表

R&D unit, NEC TOKIN	I Corporation	対象回路図情報		7
基板機能	作成者	回路図名		
IEEE802.15.4-2.4GHz無線通信	小野瀬克也	MCUブロック		
部品表ファイル名	作成日	78K0R_KE3 A	作成日	
NT2400R56-2A(100511)部品表.xls	2009年10月20日	RFブロック	2009年10月20日	
ボード名	版数	UZ2400.D A	版数	
NT2400R56-2A rev1.2	1		1	1.1

1\_MCUブロック

No. S	Symbol	Name	PCB Footprint,(SILK)	Type	Supplier	PKG (mm)	Description	Remarks
1 (	C101	Capacitor, Tantalum	2012	PSLP0J106M	NEC TOKIN	2.0x1.25xt1.1	Neo,10uF,6.3V,0.2 Ω,6.3uA,P-case	代ESVP0J106M,6 Q,0.6uA
2 (	C102	Capacitor, Tantalum	2012	PSLP0J106M	NEC TOKIN	2.0x1.25xt1.1	Neo,10uF,6.3V,0.2 Ω,6.3uA,P-case	代ESVP0J106M,6Ω,0.6uA
3 (	C103	Capacitor ,Ceramic	1005	MCH153FN104ZK	ROHM	1.0x0.5xt0.5	0.1uF,16V,-20%+80%	
4 (	C104	Capacitor ,Ceramic	1005	MCH153FN104ZK	ROHM	1.0x0.5xt0.5	0.1uF,16V,-20%+80%	
5 (	C105	Capacitor ,Ceramic	1005	MCH153FN104ZK	ROHM	1.0x0.5xt0.5	0.1uF,16V,-20%+80%	
6 (	2106	Capacitor ,Ceramic	1005	GRM1552C1H220J	murata	1.0x0.5xt0.5	22pF,50V, ±5%	X101調節
7 (	C107	Capacitor ,Ceramic	1005	GRM1552C1H220J	murata	1.0x0.5xt0.5	22pF,50V, ±5%	X101調節
8 (	2108	Capacitor ,Ceramic	1005	GRM155F11C474Z	murata	1.0x0.5xt0.5	0.47uF,16V, ±10%	
9 (	C109	Capacitor ,Ceramic	1005	MCH153FN104ZK	ROHM	1.0x0.5xt0.5	0.1uF,16V,-20%+80%	
10 0	2110	Capacitor ,Ceramic	1005	GRM1554C1H1R0C	murata	1.0x0.5xt0.5	1pF,50V, ±0.25pF	X102調節
11 (	2111	Capacitor ,Ceramic	1005	GRM1554C1H1R0C	murata	1.0x0.5xt0.5	1pF,50V, ±0.25pF	X102調節
12 F	R102	Resistor ,chip	1608	RC0603JR-070RL	Yageo	1.6x0.8xt0.5	0Ω	
13 F	R103	Resistor ,chip	1608	RC0603FR-071KL	Yageo	1.6x0.8xt0.5	1kΩ	
14 2	ZD101	ZENER DIODE	2108	RD5.6UM	NECEL	2.1x0.8xt0.7	150mW,B規格,Vz3.7-4.1V	
15 F	F101	Fuse	1608	FCC16102ADB	KAMAYA	1.6x0.8xt0.45	1A,110m Ω max	
16	J101	Connector(HEADER,Straight)	20.0x5.7SMT	DF17(2.0)-060DP-0.5V(57)	hirose	20.0x5.7xt4.3	60pin,0.3A,0.5mm,金,Header,Straight	
17	Y101	Filter	3216-3port	NFE31PT222Z1E	murata	3.2x1.6xt1.6	2200pF±50%,25Vdc,6A	
18	Y102	Filter	3216-3port	NFE31PT222Z1E	murata	3.2x1.6xt1.6	2200pF±50%,25Vdc,6A	
		MCU			NECEL	5.0x5.0xt0.9	16-BIT,78K0R/KE3,ROM256KB,RAM12KB	
20 )	X101	Quartz crystal	3225	TSX-3225	EPSON TOYOCOM	3.2x2.5xt0.6	20MHz,60 Ω max, ±10ppm	
21 )	X102	Quartz crystal	3215	DST310S	KDS	3.2x1.5x0.7t	32.768kHz,80k Ω max., ± 20ppm	
22 F	PD101	PAD					0.5×2mm シールド用	
23 F	PD102	PAD					0.5×2mm シールド用	
24 F	PD103	PAD					0.5×2mm シールド用	
25								

2\_RFブロ<u>ック</u>

ロ <u>ック</u>								
No.	Symbol	Name	PCB Footprint,(SILK)	Type	Supplier	PKG (mm)	Description	Remarks
1	C201	Capacitor ,Ceramic	1005		-	1.0x0.5xt0.5	(n.c.)	
2	C202	Capacitor ,Ceramic	1005	ı	-	1.0x0.5xt0.5	(n.c.)	
3	C203	Capacitor ,Ceramic	1005	ı	-	1.0x0.5xt0.5	(n.c.)	
		Capacitor ,Ceramic	1005	MCR01MZPJ000	ROHM	1.0x0.5xt0.5	0Ω	
5	C205	Capacitor ,Ceramic	1005	ı	-	1.0x0.5xt0.5	(n.c.)	
		Capacitor ,Ceramic	1005	UMK105CH100DW-T	TAIYO YUDEN	1.0x0.5xt0.5	10pF,50V,±5%	
		Capacitor ,Ceramic		C1005JB1E103KT	TDK	1.0x0.5xt0.5	0.01uF,25V,±10%	
		Capacitor ,Ceramic			murata	1.0x0.5xt0.5	47pF,50V, ±5%	
		Capacitor ,Ceramic			murata	1.0x0.5xt0.5	47pF,50V,±5%	
		Capacitor ,Ceramic			ROHM	1.0x0.5xt0.5	0.1uF,16V,-20%+80%	
		Capacitor ,Ceramic			Kemet	1.0x0.5xt0.5	39pF,50v,±5%	
		Capacitor, Tantalum				2.0x1.25xt1.1	Neo,10uF,6.3V,0.2 Ω ,6.3uA,P-case	
		Capacitor ,Ceramic		GRP155F10J105ZD02E		1.0x0.5xt0.5	1uF	
		Capacitor ,Ceramic		C1005JB1E103KT	TDK	1.0x0.5xt0.5	0.01uF,25V,±10%	
		Capacitor ,Ceramic			murata	1.0x0.5xt0.5	47pF,50V, ±5%	
		Capacitor ,Ceramic		MCH155A180JK	ROHM	1.0x0.5xt0.5	18pF,50V, ±5%	X201調節
		Capacitor ,Ceramic		MCH155A180JK	ROHM	1.0x0.5xt0.5	18pF,50V,±5%	X201調節
		Capacitor ,Ceramic		GRM1552C1H470J	murata	1.0x0.5xt0.5	47pF,50V, ±5%	
		Capacitor ,Ceramic		GRM1552C1H470J	murata	1.0x0.5xt0.5	47pF,50V, ±5%	
		Capacitor ,Ceramic		C1005JB1E103KT	TDK	1.0x0.5xt0.5	0.01uF,25V,±10%	
		Capacitor ,Ceramic		C1005JB1E103KT	TDK	1.0x0.5xt0.5	0.01uF,25V,±10%	
		Inductor ,chip		KL731E1N8C	KOA	1.0x0.5xt0.5	1.8nH, ± ±0.2nH,700mA	
		Inductor ,chip		MLG1005S3N6S	TDK	1.0x0.5xt0.5	3.6nH ±0.3nH 500mA	
		Resistor ,chip			ROHM	1.0x0.5xt0.5	0Ω	
		Resistor ,chip		RC0603JR-070RL	Yageo	1.6x0.8xt0.5	0Ω	
		SMA receptacle			Hirose	2.0x2.0xt0.85	50Ω DC100V DC∼6GHz	
		Bandpass Filter		DEA252450BT-2027A1	TDK	2.5x2.0xt1.0	(n.c.)	挿入損失1.2dBMAX(2.4-2.5GHz) 減衰量35dB
		Balun		LDB212G4020C-001	murata	1.6x0.8xt0.6	50 Ω 2.3GHz ~ 2.5GHz	
		RFIC		UZ2400D		5.0x5.0xt1.0	IEEE802.15.4, 2.4GHz	
		Quartz crystal	3225	DSX321SL	KDS	3.2x2.5xt0.6	32MHz	
		PAD					1 × 1mm	
32								
33								
34								
35								

3\_アンテナ

N	lo.	Symbol	Name	PCB Footprint,(SILK)	Туре	Supplier	PKG (mm)	Description	Remarks
	1	L301	Inductor ,chip	1005	KL731E1N8C	KOA	1.0x0.5xt0.5	$1.8$ nH, $\pm \pm 0.2$ nH, $700$ mA	
	2	L302	Inductor ,chip	1005	KL731E1N8C	KOA	1.0x0.5xt0.5	$1.8$ nH, $\pm \pm 0.2$ nH, $700$ mA	
	3	A301	Pattern antenna						
	4								
	5								