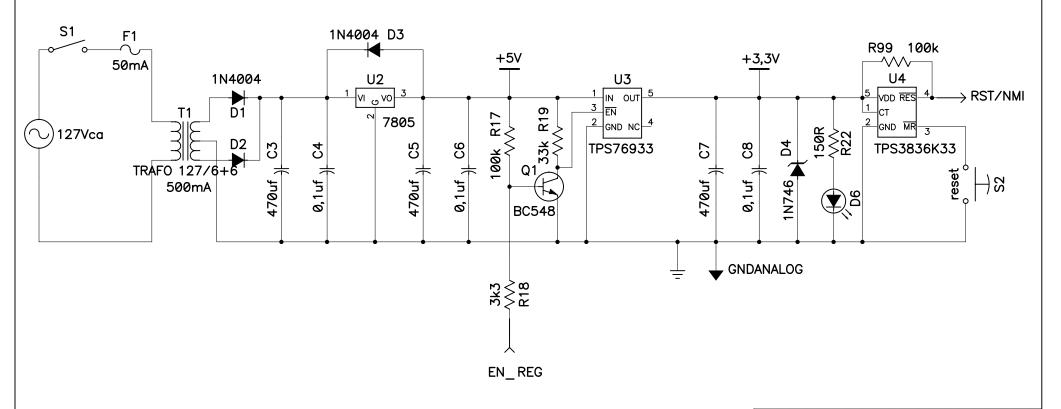
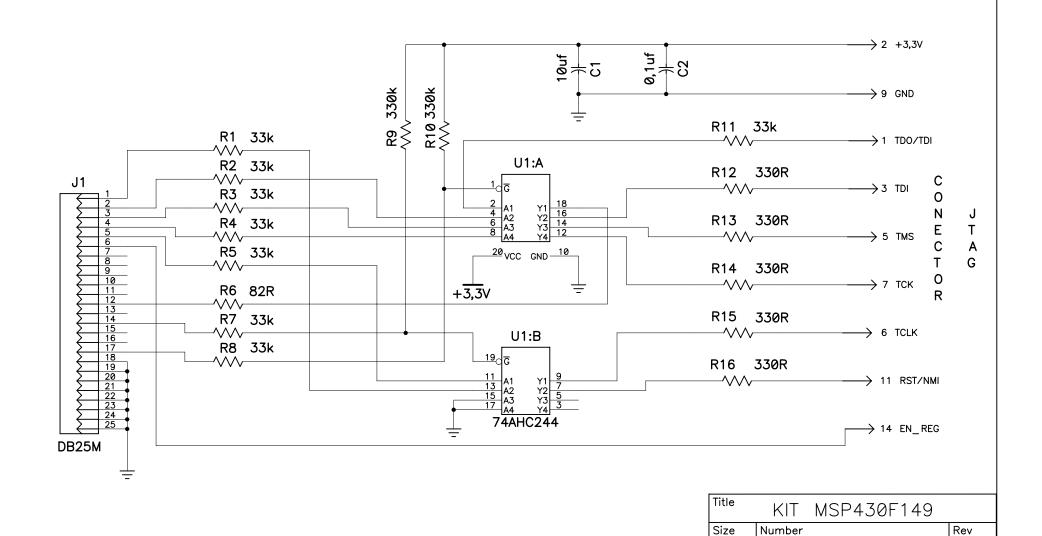


Fonte de Alimentacao



Title	KIT	MSP43	0F149	
Size	Number			Rev
			01	02
Date	Thu Oct 1	11, 2012	Drawn by	Marcos
Filenam	e kit	1 msp.sch	Sheet 2	of 11

Adaptador Jtag



02

Marcos

of 11

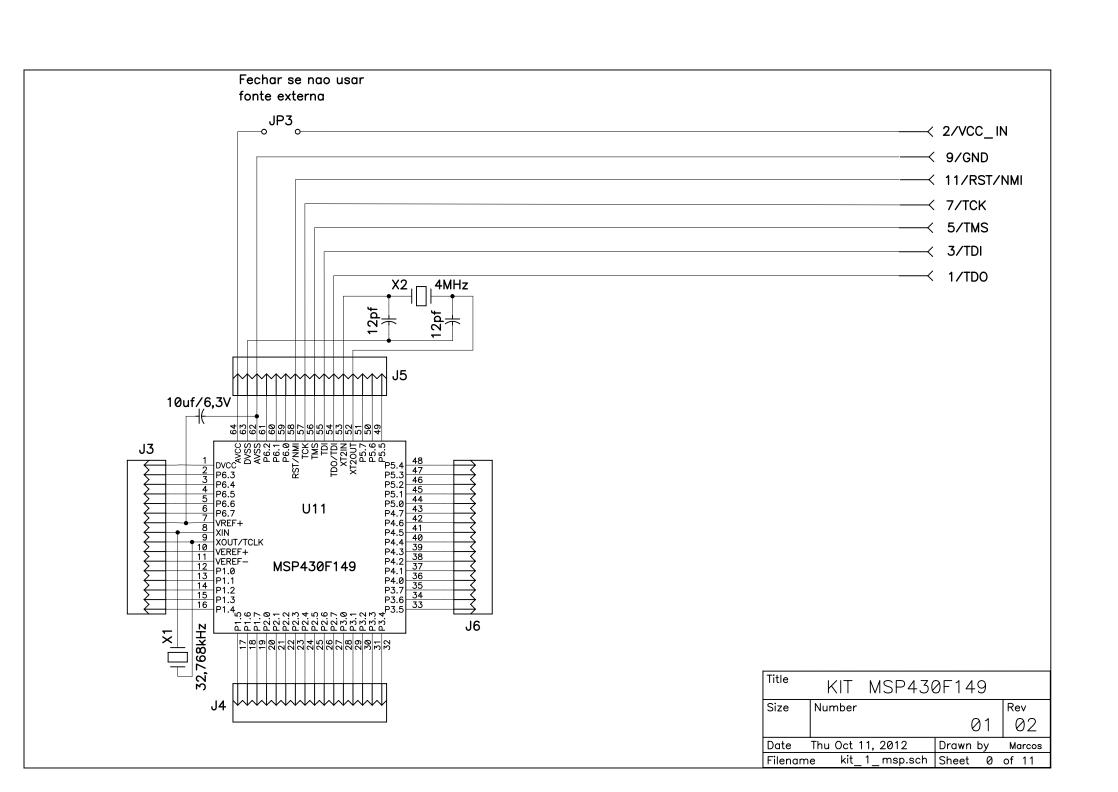
Drawn by

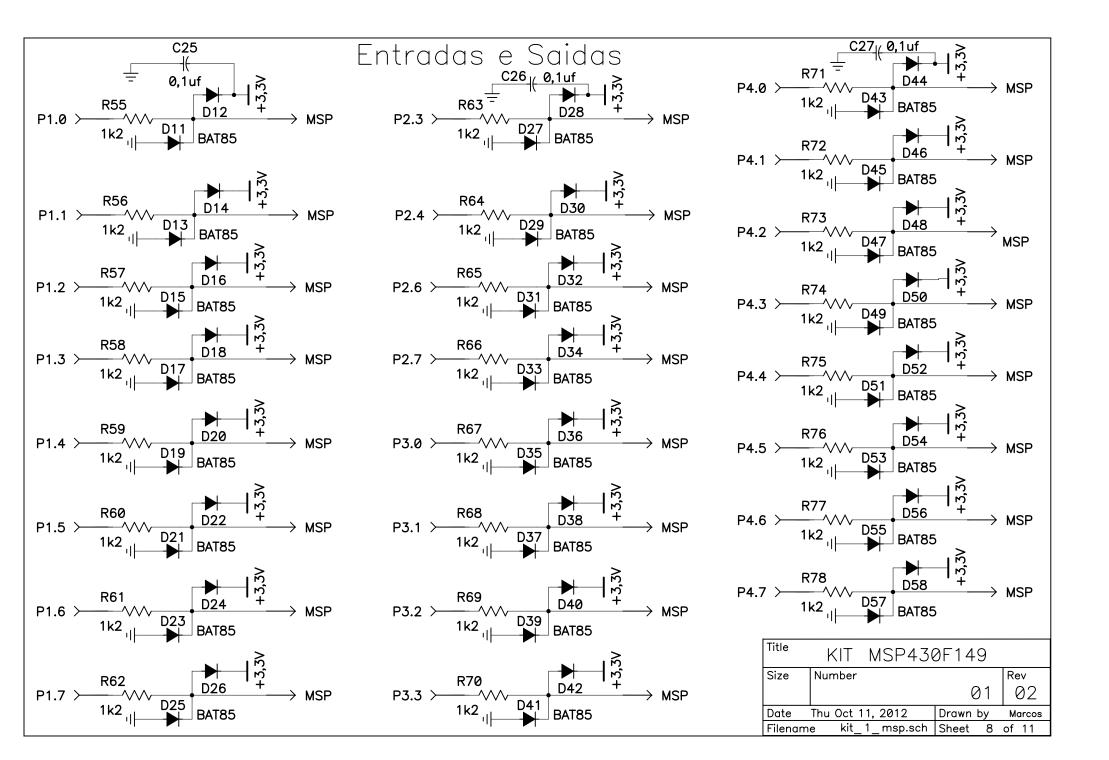
_msp.sch | Sheet

Thu Oct 11, 2012

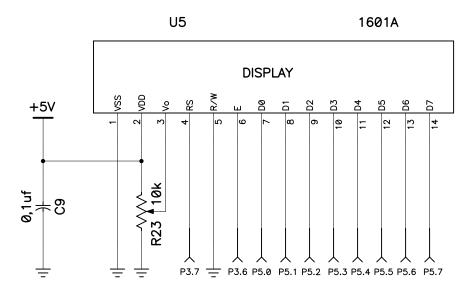
Date

Filename



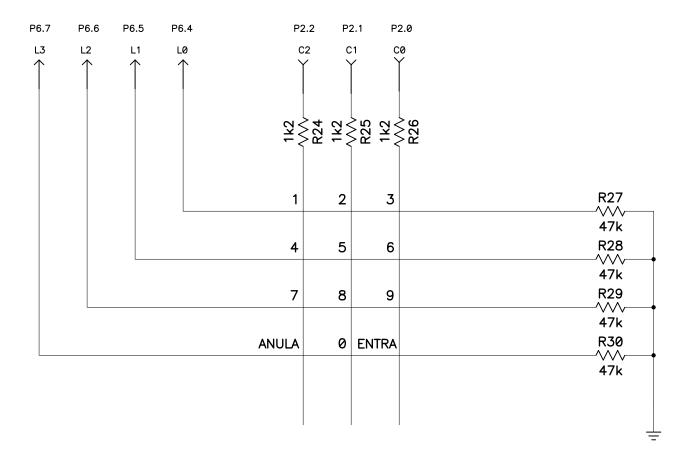


Display

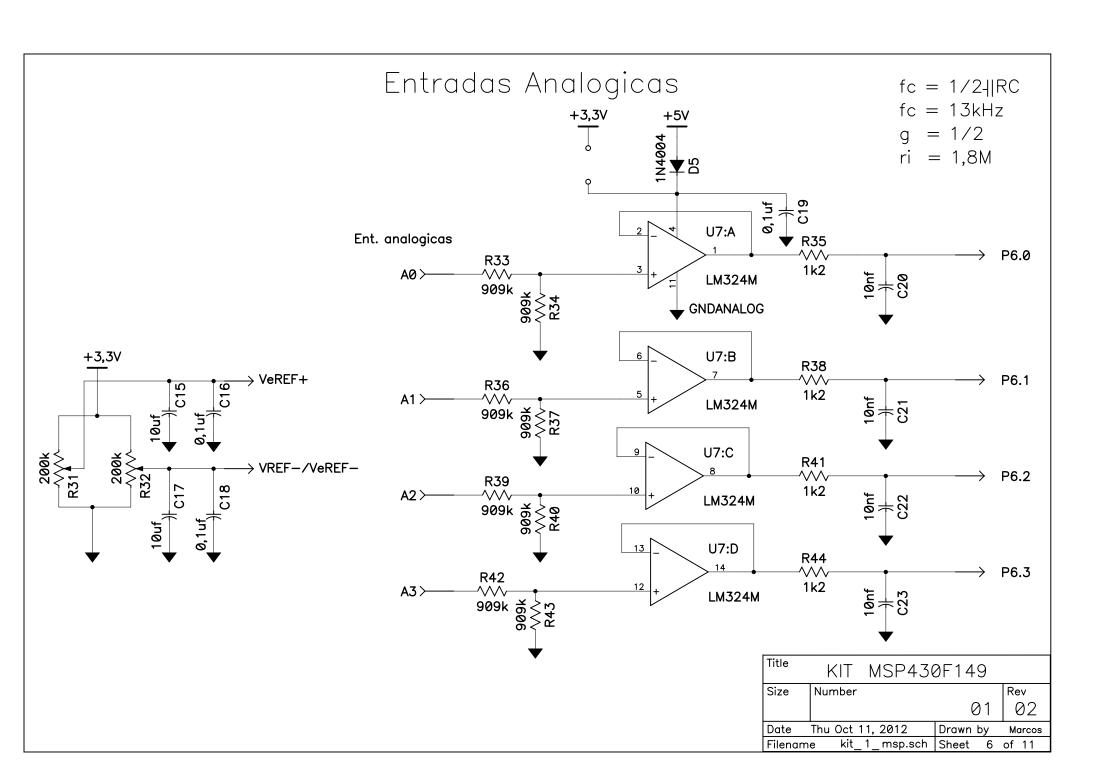


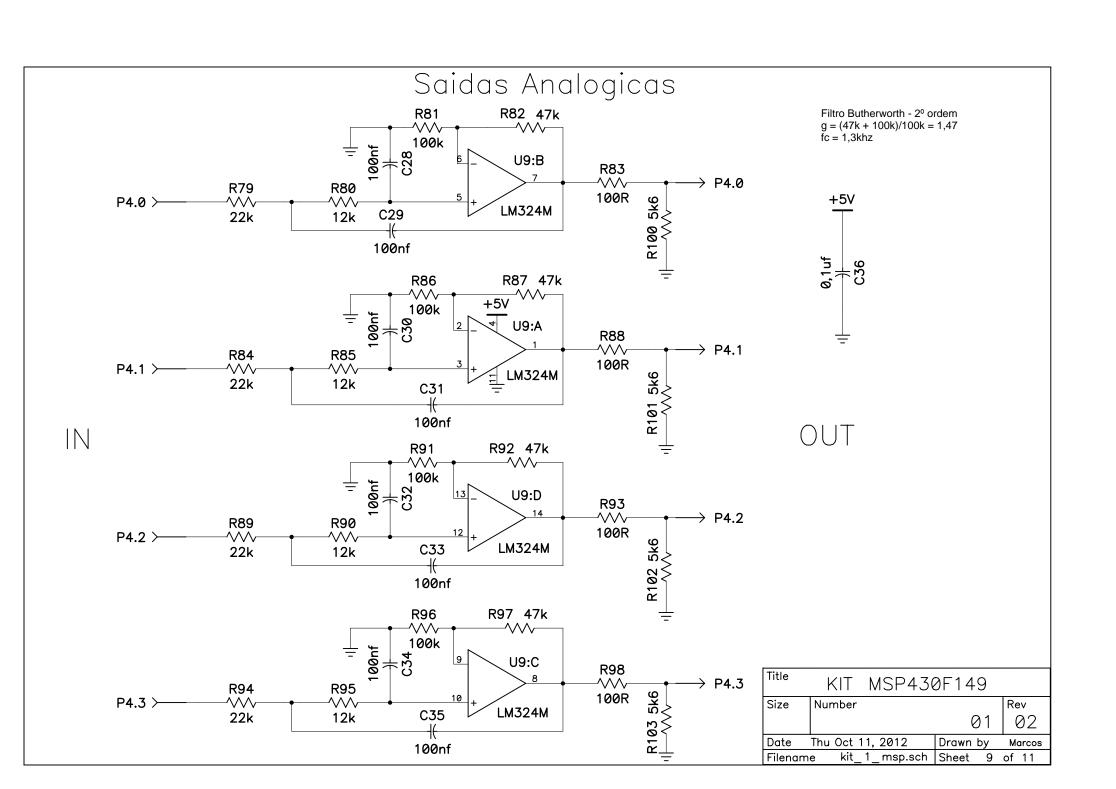
Title	KIT	MSP430	ðF149	
Size	Number			Rev
			01	02
Date	Thu Oct 1	1, 2012	Drawn by	Marcos
Filenam	e kit_	1_msp.sch	Sheet 3	of 11

Teclado

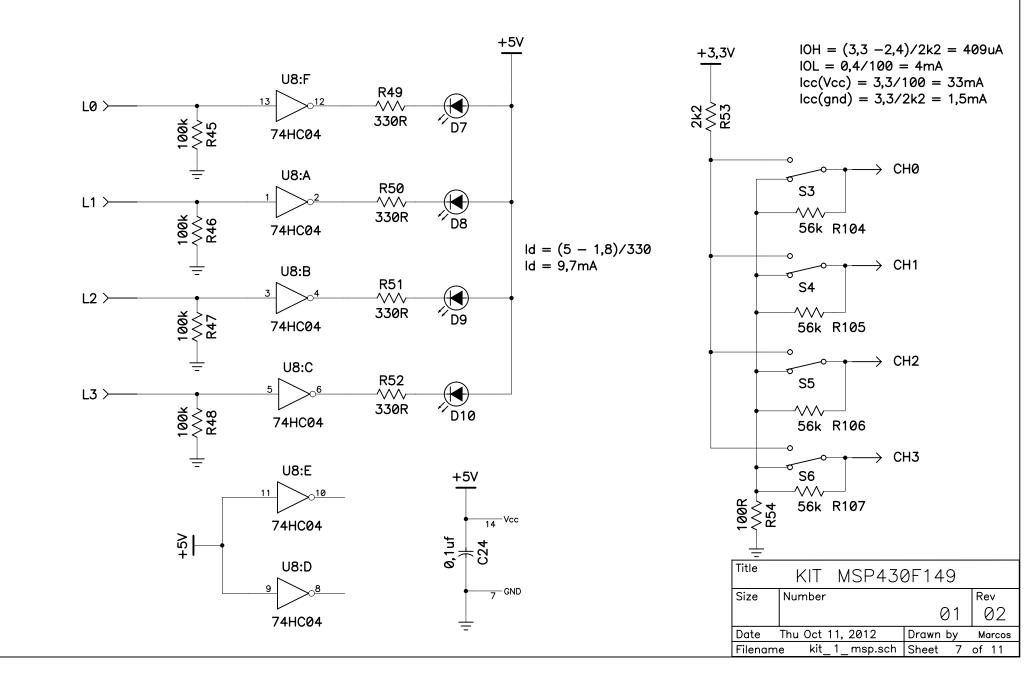


Title	KIT	MSP430	ðF149	
Size	Number			Rev
			01	02
Date	Thu Oct 1	1, 2012	Drawn by	Marcos
Filenam	e kit_	1_msp.sch	Sheet 4	of 11

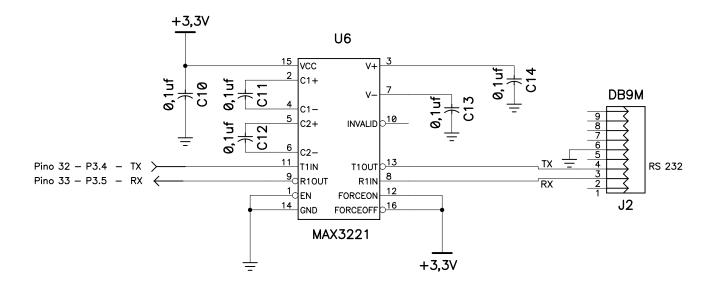




Leds e Chaves



Driver Serial



Title	KIT	MSP430	ðF149	
Size	Number			Rev
			01	02
Date	Thu Oct 1	1, 2012	Drawn by	Marcos
Filenam	e kit_	1_msp.sch	Sheet 5	of 11

Calculos

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Entradas e saidas
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MSP como saida  \begin{aligned} &\text{Icc} = 3,3/1 \text{k2} = 2,75 \text{mA} \\ &\text{IOHmax} = (3,3-2,4)/1 \text{k2} = 750 \text{uA} \\ &\text{IOLmax} = 0,4/1 \text{k2} = 330 \text{uA} \\ &\text{MSP como entrada} \\ &\text{Entrada} = +12 \text{V} \\ &\text{corrente p/ fonte} = (12-3,3-0,3)/1 \text{k2} = 7 \text{mA} \\ &\text{Entrada} = -12 \text{V} \\ &\text{corrente p/ terra} = (12-0,4)/1 \text{k2} = 9,6 \text{mA} \end{aligned}
```

Title	KIT	MSP430	ðF149	
Size	Number			Rev
			01	02
Date	Thu Oct 1	1, 2012	Drawn by	Marcos
Filenam	e kit_	1_msp.sch	Sheet 10	of 11

