



9FGV0431:  
TO CONFIGURE FOR Zdiff = 85 Ohms Rs = 27 ohms.  
9FGV0441:  
No external series resistors.

NOTE: FERRITE BEADS FB1 =

Manufacturer	Part Number	Z@100MHz	PkgSz	DC res.	Current (Ma)
muRata	BLM21A601R	600	0805	0.30	600
TDK	MMZ2012S601A	600	0805	0.30	600
STEWART	HZ0805E601R	600	0805	0.30	600
AssocCmpTch	CBG0805-600-50	600	0805	0.30	600

  

Manufacturer	Part Number	Z@100MHz	PkgSz	DC res.	Current (Ma)
muRata	BLM18AG601SN1	600	1608	0.50	200
muRata	BLM18BD601SN1_PB	600	1608	0.65	200
Ceratech	HB-1T1608-601	600	1608	0.50	200
TDK	MMZ1608R301A	300	1608	0.20	500

- Layout notes.
1. Separate Xout and Xin traces by 3 x the trace width.
  2. Do not share crystal load capacitor ground via with other components.
  3. Route power from bead through bulk capacitor pad then through 0.1uF capacitor pad then to clock chip Vdd pad.
  4. Do not share ground vias. One ground pin one ground via.

Revision history  
 0.1 7/6/2012 first publication  
 0.2 8/8/2012 Change R38 value from 240 to 0 ohms  
 0.3 8/10/2012 Change xtal load caps were 12 pF  
 0.4 8/14/2013 Add note for 9FGV0441 termination.

**Integrated Device Technology**  
San Jose, CA

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