



Standard Solutions for Stratix II, Stratix II GX and Stratix III

Devices	Pin Count	Package Size (mm)	Package Height (mm) ¹	Type of heat sink ²	Recommended part number	Heat sink height (mm)	Thermal resistance (C/W)				
							200 LFM	400 LFM	600LFM		
EP2S15	484	23	2.8	Passive							
EP2S30											
EP2S60					HS1801EBP1705K22	12.7	5.8	3.6	2.8		
EP2S90					HS2134DBP1705K22	7.1	11.6	7.9	6.5		
EP3SL50					HS2134DBP1705K22	12.2	7.4	5.1	4.3		
EP3SL70											
EP3SE50											
	672	27	2.8	Passive	INM27001-15W/2.6K32+T710	14.6	4.5	3.2	2.7		
					INM27001-18W/2.6K32+T710	17.6	3.7	2.6	2.2		
					INM27001-21W/2.6K32+T710	20.6	3.1	2.3	1.9		
					INM27001-23W/2.6K32+T710	22.6	2.9	2.1	1.8		
EP2S15					INM27001-28W/2.6K32+T710	27.6	2.7	2	1.7		
EP2S30					INM27001-33W/2.6K32+T710	32.6	2.3	1.8	1.5		
EP2S60					INM27002-12P/2.6K32+T710	11.6	5.3	3.8	3.1		
					INM27002-15P/2.6K32+T710	14.6	4.4	3.2	2.6		
					INM27002-20P/2.6K32+T710	19.6	3.1	2.2	1.9		
					INM27002-25P/2.6K32+T710	24.6	2.8	2	1.7		
					INC27001-7/1.5BU+Li98	7.1	9.2	5.8	4.6		
EP2S90	780	29	2.8	Passive							
EP2S130											
EP2SGX30											
EP2SGX60											
EP3SL50											
EP3SL70					HS1804EBP4905K43	12.7	3.8	2.2	1.7		
EP3SL110											
EP3SL150											
EP3SE50											
EP3SE80											
EP3SE110											
	1020	33	2.8	Passive	INM33001-15W/2.6K33+T710	14.6	3.4	2.2	1.7		
					INM33001-18W/2.6K33+T710	17.6	2.9	1.9	1.4		
					INM33001-21W/2.6K33+T710	20.6	2.4	1.5	1.1		
					INM33001-23W/2.6K33+T710	22.6	1.9	1.3	0.9		
EP2S60					INM33001-28W/2.6K33+T710	27.6	1.7	1.1	0.8		
EP2S90					INM33001-33W/2.6K33+T710	32.6	1.5	1	0.7		
EP2S130					INM33002-12P/2.6K33+T710	11.6	3.8	2.7	2.2		
EP2S180					INM33002-15P/2.6K33+T710	14.6	3.2	2.2	1.8		
					INM33002-20P/2.6K33+T710	19.6	2.3	1.6	1.3		
					INM33002-25P/2.6K33+T710	24.6	1.9	1.4	1.2		
				Active (12V)	CS1988V10	19.6	2				
	Active (5V)	CS1988V11	19.6	2							
	1152	35	2.8	Passive	HS1807EBP3805K52	12.7	2.9	1.7	1.3		
					INM35001-18W/2.6K29+T710	17.6	2.4	1.7	1.4		
					INM35001-21W/2.6K29+T710	20.6	2.1	1.5	1.2		
					INM35001-23W/2.6K29+T710	22.6	1.9	1.3	1.1		
EP2SGX60					INM35001-28W/2.6K29+T710	27.6	1.7	1.2	1		
EP2SGX90					INM35001-33W/2.6K29+T710	32.6	1.5	1	0.8		
EP3SL110					HS2132DBP3805K52	7.1	6.4	4.8	3.3		
EP3SL150					HS2103DBP3805K52	12.2	3.9	2.6	2.1		
EP3SL200					HS2089DBP3805K35	7.6	6.1	4	3.2		
EP3SE80					HS2090DBP3805K35	12.7	3.7	2.4	1.9		
EP3SE110					INM35002-12P/2.6K29+T710	11.6	3.4	2.5	1.9		
EP3SE260					INM35002-15P/2.6K29+T710	14.6	2.9	2	1.7		
					INM35002-20P/2.6K29+T710	19.6	2	1.5	1.2		
					INM35002-25P/2.6K29+T710	24.6	1.8	1.3	1		
					INC35001-7/1.5K52+Li98	7.1	5.9	3.6	2.7		
					Active	FA35 or FB35+K52B+T710	19.6	1.9			
				FC35 or FD35+K29B+T710	16.7	2.3					

NOTE:

1. Package height does not include the solder balls.
2. Active solution for those not mentioned above: Contact Radian
3. Recommended Keep out area: 2.5mm on either side of the heat sink



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							200 LFM	400 LFM	600LFM
EP2S90 EP2S130 EP2S180 EP2SGX90 EP2SGX130 EP3SL200 EP3SL340 EP3SE260	1508/ 1517	40	2.8	Passive	HS1809EBP4005K55	12.7	2.4	1.4	1
					INM40001-18W/2.6K30+T710	17.6	1.9	1.4	1.1
					INM40001-21W/2.6K30+T710	20.6	1.7	1.2	0.9
					INM40001-23W/2.6K30+T710	22.6	1.5	1.1	0.8
					INM40001-28W/2.6K30+T710	27.6	1.3	1	0.8
					INM40001-33W/2.6K30+T710	32.6	1.2	0.8	0.7
					HS2140DBP4005K55	7.1	5.7	3.5	2.8
					HS2141DBP4005K55	12.2	3.4	2.2	1.8
					HS2081DBP4005K36	7.6	5.1	3.3	2.7
					HS2080DBP4005K36	12.7	3.3	2.1	1.7
					INM40002-12P/2.6K30+T710	11.6	2.8	1.9	1.5
					INM40002-15P/2.6K30+T710	14.6	2.4	1.6	1.3
					INM40002-20P/2.6K30+T710	19.6	1.7	1.2	0.9
					INM40002-25P/2.6K30+T710	24.6	1.4	1	0.8
					INC40001-7/1.5K55+Li98	7.1	4.1	2.5	2
INC400A1-8/2.0K36+Li98	8.1	3.1	1.9	1.5					
				Active	FA40 or FB40+K55B+T710	23.3	1.3		
					FC40 or FD40+K30B+T710	16.7	2		
EP3SL340	1760	42.5	2.8	Passive	HS1810EBP2005K31	12.7	2.2	1.3	0.9
					HS2167DBP2005K31	7.1	4.9	3.7	2.5
					HS2169DBP2005K31	12.2	3.2	2.1	1.7
					HS2166DBP2005K31	7.6	4.7	3	2.4
					HS21678DBP2005K31	12.7	3.1	2	1.8
				Active	FA42.5 or FB42.5+K31B+T710	23.3	1.2		
					FC42.5 or FD42.5+K31A+T710	20.4	1.6		

NOTE:

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3. Recommended Keep out area: 2.5mm on either side of the heat sink