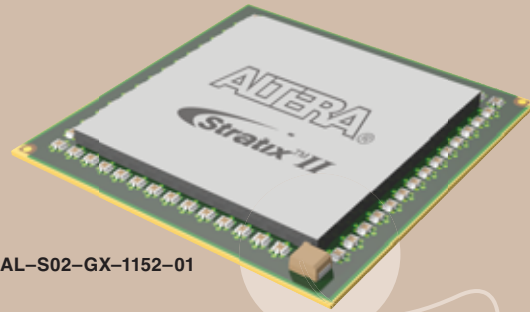




POWERPOSER™



PPAL-S02-GX-1152-01

ALTERA® INTERPOSER PPAL SERIES

FEATURES

- Up to 31 percent increase in usable customer PCB real estate as most capacitors, ferrite filters and linear power supplies can be removed
- Up to 33 percent routing channel improvement
- Up to 25 percent noise reduction & speed improvement
- Preferable that the customer consign the FPGA to Samtec for package assembly
- Samtec can design custom PowerPoser™ Interposers for ASICs or FPGAs for which there is currently no standard offering
- For additional specifications, FPGA shipping details and custom Interposer design information contact powerposer@samtec.com

SPECIFICATIONS

For complete specifications see www.samtec.com?PPAL

PowerPoser™ Interposer optimizes FPGA or ASIC performance on customer PCB

Interposer footprint matches FPGA footprint

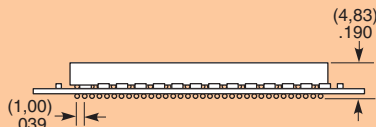
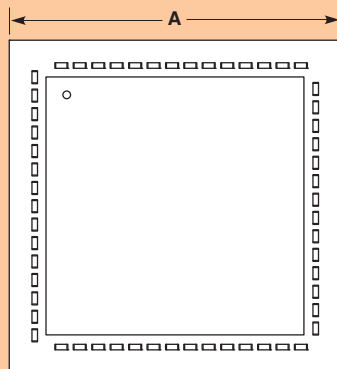
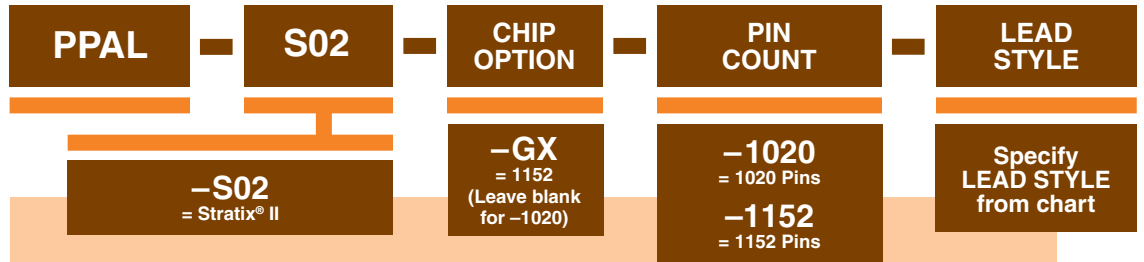
APPLICATION

- PowerPoser™ Interposer FPGA Devices:
- PPAL-S02-1020-XX for use with Altera® Stratix® II 1020
 - PPAL-S02-GX-1152-XX for use with Altera® Stratix® II GX 1152

Ultra thin dielectric layers

Low inductance, high capacitance X2Y® capacitors

X2Y® is a registered trademark of X2Y Attenuators, LLC.



PIN COUNT	A
1020	(43.00) 1.693 SQ
1517	(44.96) 1.770 SQ

LEAD STYLE	1020 FPGA PART NUMBER	1152 FPGA PART NUMBER
-01	EP2S90F-1020C5N	EP2SGX90EF1152C5N
-02	EP2S60F-1020C3N	EP2S60EF1152C3N
-03	EP2S60F-1020C4N	EP2S60EF1152C4N
-04	EP2S60F-1020C5N	EP2S60EF1152C5N
-05	EP2S90F-1020C3N	EP2S60EF115214N
-06	EP2S90F-1020C4N	N/A
-07	EP2S130F-1020C3N	N/A
-08	EP2S130F-1020C4N	N/A
-09	EP2S130F-1020C5N	N/A
-10	EP2S180F-1020C3N	N/A
-11	EP2S180F-1020C4N	N/A
-12	EP2S180F-1020C5N	N/A
-13	EP2S90F-102015N	N/A
-14	EP2S130F-102014N	N/A
-15	EP2S180F-102014N	N/A

Altera® and Stratix® are trademarks of Altera Corporation.

Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM