

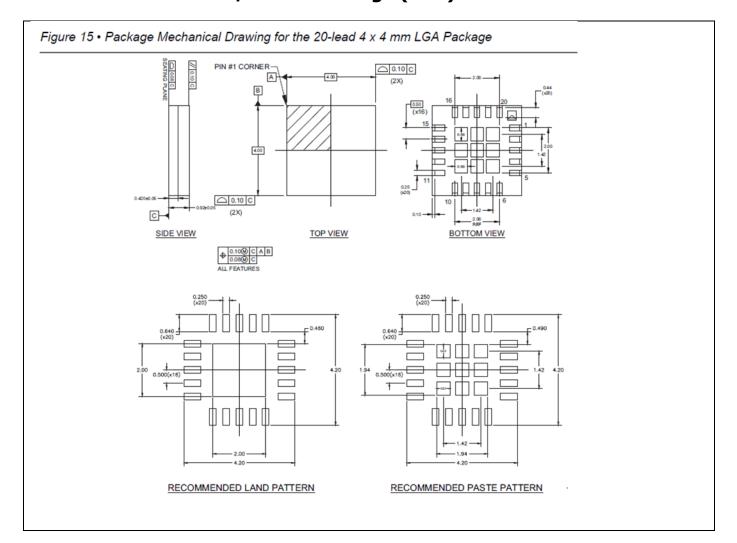
Product/Process Change (PCN) Notification

Number: CO-40569 To contact our team with questions or for more				
Date Issued: 20 Jun 2025	information:			
PCN Effective Date: 30 Jun 2025	1. Go to psemi.com.			
Product(s) Affected: PE42443	2. Click the Support button.			
Sample Availability: 20 Jun 2025	3. Select the Technical Support tab and submit your request.			
Change Control Board Approval #: CO-40225				
Change Category:				
☐ Wafer Fabrication Process	☐ Shipping/Labeling			
□ Design/Mask Change	☐ Equipment			
☐ Singulation Process	☐ Material			
Assembly Process	□ Product Specification Datasheet Update			
☐ Electrical Test	☐ Product End of Life			
☐ Manufacturing Site	☐ Other			
Purpose of Change:				
Design Optimization to improve manufacturability.				
Description of Change:				
1. Ordering Code Change: the new optimized PE42443 will be available under new ordering code PE42443B-Z.				
2. Package Design was changed to provide more robust mechanical support to the die during the assembly process:				
 a. The bump layout & density was optimized. This does not affect the outside of the package. 				
 A solder mask web layout design was added to the ground pad. This affects the solder pattern on the ground pad as is shown in figure below. 				
3. CDM ESD rating was increased from 500V to	CDM ESD rating was increased from 500V to 750V			
4. There is no change to other electrical or pack	1. There is no change to other electrical or package dimensions/pinout specifications			

^{*}Customer Acknowledgement is based upon JEDEC Standard, JESD46D. Form # DOC-00558 Rev 3 If there is a difference between JEDEC and specific customer requirements, customer requirements take precedence.



Product/Process Change (PCN) Notification



^{*}Customer Acknowledgement is based upon JEDEC Standard, JESD46D. Form # DOC-00558 Rev 3 If there is a difference between JEDEC and specific customer requirements, customer requirements take precedence.



Product/Process Change (PCN) Notification

Qualification Summary:

Item	Rel Test	Conditions	Sample Size	Finish
1	MSL3 Precondition	30C/60% RH, Reflow 260C 192hrs 15pcs x 3 lot		Complete/ PASS
2	uHAST	110C/85% RH, Vdd = 3.6V, 264hrs	45pcs x 3 lots	Complete/ PASS
3	Temp Cycling	11a -55C to 125C, 500CVC 45DCS X 3 IOTS		Complete/ PASS
4	Temp Cycling	Ta -55C to 125C, 1000cyc	45pcs x 3 lots	Complete/ PASS
5	High Temp Storage	150C, 1000hrs 45pcs x 3 lots		Complete/ PASS
6	Multiple Reflow Thermal Stress	6X Reflow at 260C	2700pcs x 3 lots	Complete/ PASS

Customer Acknowledgement of Receipt*:

edstorrer Acknowledgement of Receipt 1			
☐ Change Denied	Name:		
(Include explanation in comments section below)	Title:		
☐ Change Approved	Company:		
	Date:		
	Signature:		
Customer Comments:			

^{*}Customer Acknowledgement is based upon JEDEC Standard, JESD46D. Form # DOC-00558 Rev 3 If there is a difference between JEDEC and specific customer requirements, customer requirements take precedence.