



The DNA of tech.™



PIQ material change for IC

For further information, please contact your regional Vishay office.

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Description of Change: Vishay is using a new PIQ material that is standard within our supply chain.

Reason for Change: The PIQ vendor to our Foundry Partner has discontinued the PIQ material used on the below products. The replacement PIQ material is provided by the same vendor and is used in much greater volume of production.

Expected Influence on Quality/Reliability/Performance: There will be no effect on performance, quality or reliability.

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay Siliconix

Time Schedule:

Start Shipment Date: Mon Jul 29, 2024

Sample Availability: Samples are available now

Product Identification: Lot Number

Qualification Data: See attached PDF

Issued By: Lisette Saba, malinalisette.saba@vishay.com



Product Information Notification



Product Group: SIL/Thu Jun 27, 2024/PIN-SIL-000505-2024-REV-0

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SIC431AED-T1-GE3	SIC431BED-T1-GE3	SiC431CED-T1-GE3	SiC431DED-T1-GE3	SIC437AED-T1-GE3
SIC437BED-T1-GE3	SiC437CED-T1-GE3	SiC437DED-T1-GE3	SIC438AED-T1-GE3	SIC438BED-T1-GE3
SiC438CED-T1-GE3	SiC438DED-T1-GE3	SIC448ED-T1-GE3	SIC450ED-T1-GE3	SIC451ED-T1-GE3
SIC453ED-T1-GE3	SIC454ED-T1-GE3	SIC461ED-T1-GE3	SIC462ED-T1-GE3	SIC463ED-T1-GE3
SIC464ED-T1-GE3	SiC466ED-T1-GE3	SiC467ED-T1-GE3	SiC468ED-T1-GE3	SiC469ED-T1-GE3
SiC471ED-T1-GE3	SiC472ED-T1-GE3	SiC473ED-T1-GE3	SiC474ED-T1-GE3	SiC476ED-T1-GE3
SiC477ED-T1-GE3	SiC478ED-T1-GE3	SiC479ED-T1-GE3	SIC820AED-T1-GE3	SIC820ED-T1-GE3
SIC822AED-T1-GE3	SIC832AED-T1-GE3	SIC842AED-T1-GE3	SIC850AED-T1-GE3	SIC850ED-T1-GE3
SIC850FED-T1-GE3	SIC856AED-T1-GE3	SIC931BED-T1-GE3		



QUALIFICATION DATA

Qualification Data

June 2024



QUALIFICATION DATA

Reliability Test Results

EVAL	STRESS	STEP	HR/CYC	TEST CONDITION	/VOLT	S	S	FAIL	DONE	TYPE	CODE
2480051	HAST	0	HAST	0	82	0	X	ET			
	1 HAST		100	82	0	X	ET				
	MSL	0	MSL CLASSIFICATI	0	11	0	X	VM			
	1 MSL CLASSIFICATI		168	11	0	X	VM				
	PRESSURE P	0	PRESSURE POT	0	82	0	X	ET			
	1 PRESSURE POT		96	82	0	X	ET				
	TEMP CYCLE	0	T/C (H)	0	82	0	X	ET			
	1 T/C (H)		250	82	0	X	ET				
	2 T/C (H)		500	82	0	X	ET				
	3 T/C (H)		1000	82	0	X	ET				
	VP/SOLDER	0	PRODUCT PRECONDI	168G	246	0	X	ET			

PART NUMBER: AMSIC456ED-
 LOT #: S36V022.1
 DATE CODE: T352AB
 PURPOSE: MLP34-57/JABENSBKNSCE/SIC456E

EVAL	STRESS	STEP	HR/CYC	TEST CONDITION	/VOLT	S	S	FAIL	DONE	TYPE	CODE
2460009	ESD - CDM	0	ESD ¹ - C D MO	0	18	0	X	ET			
	1 ESD ¹ - C D MO		125	3	0	X	ET				
	2 ESD ¹ - C D MO		250	3	0	X	ET				
	3 ESD ¹ - C D MO		500	3	0	X	ET				
	4 ESD ¹ - C D MO		750	3	0	X	ET				
	5 ESD ¹ - C D MO		1000	3	1	X	ET	FI			
	6 ESD ¹ - C D MO		1500	3	2	X	ET	FI			
	ESD - HBM	0	ESD ¹ - H B MO	0	24	0	X	ET			
	1 ESD ¹ - H B MO		125	3	0	X	ET				
	2 ESD ¹ - H B MO		250	3	0	X	ET				
	3 ESD ¹ - H B MO		500	3	0	X	ET				
	4 ESD ¹ - H B MO		750	3	0	X	ET				
	5 ESD ¹ - H B MO		1000	3	0	X	ET				
	6 ESD ¹ - H B MO		1500	3	0	X	ET				
	7 ESD ¹ - H B MO		2000	3	0	X	ET				
	8 ESD ¹ - H B MO		3000	3	0	X	ET				

PART NUMBER: SIC456ED
 LOT #: EBR1371
 DATE CODE:
 PURPOSE: QUALIFICATION



QUALIFICATION DATA

EVAL	STRESS	STEP	HR/CYC	TEST CONDITION /VOLT	TEST	FAIL	DONE	TYPE	CODE
2480270	VALIDATION	1	3X	REFLOW	3	3285	0	X	ET
		2	T/C (H)	250 3068	0	X	ET		

PART NUMBER: AMSIC456ED-
 LOT #: S36V022.1
 DATE CODE: T352AB
 PURPOSE: MLP34-57/JABENSBKNSCE/SIC456E

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