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**LFPCNUSA2021-001**

**Product Change Notification for Littelfuse MOSFETE DISCRETE and Discrete IGBT in ISOPlus247, SMPD, ISOPLUS264 and I4PAK**

To whom it may concern,

Littelfuse would like to notify you of a change related to Molding Compound Change (EMC).

**DESCRIPTION OF CHANGE:** As previously communicated to our customers, Samsung SDI has decided to exit the EMC material business and as a result we have qualified an alternate molding compound for the packages ISOPlus247, SMPD, ISOPLUS264 and I4PAK, manufactured at our assembly subcon.

**Form, fit, function changes:** No Fit/Form/Function change with alternative EMC.

Below is the package qualification data for ISOPlus247, SMPD, ISOPLUS264 and I4PAK:

TEST	CONDITION	ENDPOINT	RESULT
HTRB	MIL-STD-750-1 M1038 Method A; 125°C	1000 hours	pass
HTGB	JESD22 A108; 150°C	1000 hours	pass
Temperature Cycle	JESD22-A104 (-55°C to 150°C)	250 Cycles	pass
HAST	JESD22-A110 (130° C, 85% RH)	96 hours	pass
Autoclave	JESD22 A102 (121° C, 100%RH, 15 psig)	96 hours	pass

Shipments with the alternative new molding compound will begin starting with WW09.

Please refer to next page for the list of affected part numbers.

If you have any additional questions or concerns, please contact us or your Regional Sales Manager.

Best Regards,

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**REMARKS: List of affected part numbers ISOPlus247:**

MOSFET DISCRETE		Discrete IGBT
Part Number	Part Number	Part Number
IXFR32N100P	IXFR180N06	IXGR48N60C3D1
IXFR20N120P	IXFR150N15	IXGR16N170AH1
IXFR24N90P	IXFR20N100P	IXYR100N120C3
IXFR24N50Q	IXFR15N80Q	IXGR72N60B3H1
IXTR140P10T	IXFR100N25	IXGR6N170A
IXTR20P50P	IXTR30N25	IXGR32N170AH1
IXFR20N80P	IXTR62N15P	IXXR110N65B4H1
IXFR18N90P	IXFR50N50	IXGR60N60C3C1
IXFR1871	IXFR40N50Q2	IXGR60N60C3D1
IXFR38N80Q2	IXFR180N07	IXGR72N60C3D1
IXFR14N100Q2	IXTR68P20T	IXGR48N60B3D1
IXFR21N100Q	IXFR34N80	IXGR32N170H1
IXFR66N50Q2	IXFR30N110P	IXXR100N60B3H1
IXFR80N20Q	IXFR180N085	IXGR24N120C3D1
IXFR26N50Q	IXTR90P10P	IXYR50N120C3D1
IXFR32N50Q	IXFR12N100Q	IXGR72N60A3H1
IXFR26N60Q	IXFR58N20Q	IXGR55N120A3H1
IXFR70N15	IXFR24N50	IXGR72N60C3
IXFR26N50		IXGR50N90B2D1
		IXYR100N65A3V1
		IXGR120N60B
		IXGR72N60C3
		IXGR120N60B

**List of affected part numbers SMPD:**

Part Number	Product series	Part Number	Product series
MMIX2F150N20T	MOSFET DISCRETE	MMIX1H60N150V1	Discrete IGBT
MMIX1T660N04T4	MOSFET DISCRETE	MMIX4G20N250	Discrete IGBT
MMIX1T132N50P3	MOSFET DISCRETE	MMIX1X200N60B3H1	Discrete IGBT
MMIX1F40N110P	MOSFET DISCRETE	MMIX1Y100N120C3H1	Discrete IGBT
MMIX1F44N100Q3	MOSFET DISCRETE	MMIX1X100N60B3H1	Discrete IGBT
MMIX1F132N50P3	MOSFET DISCRETE	MMIX1G120N120A3V1	Discrete IGBT
MMIX1F360N15T2	MOSFET DISCRETE	MMJX1H40N150	Discrete IGBT
MMIX1F230N20T	MOSFET DISCRETE	MMIX1969	Discrete IGBT
MMIX1F180N25T	MOSFET DISCRETE	MMIX4B22N300	Discrete IGBT

MMIX1F210N30P3	MOSFET DISCRETE	MMIX4B22N300	Discrete IGBT
MMIX1F420N10T	MOSFET DISCRETE	MMIX4B20N300	Discrete IGBT
MMIX1T600N04T2	MOSFET DISCRETE	MMIX4B12N300	Discrete IGBT
MMIX1T550N055T2	MOSFET DISCRETE	MMIX1G320N60B3	Discrete IGBT
MMIX1F160N30T	MOSFET DISCRETE	MMIX1X200N60B3	Discrete IGBT
MMIX1F520N075T2	MOSFET DISCRETE	MMIX1X340N65B4	Discrete IGBT
		MMIX4B22N300-2	Discrete IGBT
		MMIX1Y25N250CV1	Discrete IGBT
		MMIX1Y82N120C3H1	Discrete IGBT

**List of affected part numbers ISOPLUS264:**

Part Number	Product series	Part Number	Product series
IXFL44N100P	MOSFET DISCRETE	IXFL70N60Q2	MOSFET DISCRETE
IXTL2x180N10T	MOSFET DISCRETE	IXFL30N120P	MOSFET DISCRETE
IXFL32N120P	MOSFET DISCRETE	IXFL40N110P	MOSFET DISCRETE
IXTL2N470	MOSFET DISCRETE	IXFL36N110P	MOSFET DISCRETE
IXFL210N30P3	MOSFET DISCRETE	IXFL80N50Q2	MOSFET DISCRETE
IXFL82N60P	MOSFET DISCRETE	IXEL40N400	Discrete IGBT
IXFL132N50P3	MOSFET DISCRETE	IXYL60N450	Discrete IGBT
IXFL38N100P	MOSFET DISCRETE	IXGL75N250	Discrete IGBT
IXFL60N80P	MOSFET DISCRETE	IXYL40N250CV1	Discrete IGBT
IXFL38N100Q2	MOSFET DISCRETE	IXYL50N170CV1	Discrete IGBT
IXFL100N50P	MOSFET DISCRETE	IXBL64N250	Discrete IGBT
IXTL2N450	MOSFET DISCRETE	IXBL60N360	Discrete IGBT
		IXA40I4000KN	Discrete IGBT
		IXG50I4500KN	Discrete IGBT
		IXG65I3300KN	Discrete IGBT

**List of affected part numbers I4PAK:**

Part Number	Product series	Part Number	Product series
IXTF200N10T	MOSFET DISCRETE	IXGF25N250	Discrete IGBT
IXTF2N300P3	MOSFET DISCRETE	IXGF1947	Discrete IGBT
IXTF6N200P3	MOSFET DISCRETE	IXBF1958	Discrete IGBT
IXTF1R4N450	MOSFET DISCRETE	IXGF30N400	Discrete IGBT
IXTF1N400	MOSFET DISCRETE	IXBF32N300	Discrete IGBT
IXTF1N250	MOSFET DISCRETE	IXGF32N170	Discrete IGBT
IXTF02N450	MOSFET DISCRETE	IXYF40N450	Discrete IGBT
IXTF1N450	MOSFET DISCRETE	IXGF36N300	Discrete IGBT

IXTF280N055T	MOSFET DISCRETE	IXYF30N450	Discrete IGBT
IXTF250N075T	MOSFET DISCRETE	IXYF30N170CV1	Discrete IGBT
IXTF230N085T	MOSFET DISCRETE	IXBF50N360	Discrete IGBT
IXTF03N400	MOSFET DISCRETE	IXBF20N360	Discrete IGBT
IXBF22N300	Discrete IGBT	IXBF55N300	Discrete IGBT
IXBF12N300	Discrete IGBT	IXBF42N300	Discrete IGBT
IXBF20N300	Discrete IGBT	IXYF16N250CV1	Discrete IGBT
IXYF40N450	Discrete IGBT	IXGF20N250	Discrete IGBT
IXBF1948	Discrete IGBT	IXBF16N360	Discrete IGBT