

PCN # 1923

DATE: February 5, 2020

EXPECTED PCN SHIP DATE: February 5, 2020



Quality Assurance
160 Rio Robles
San Jose, CA 95134

www.maximintegrated.com

PROCESS CHANGE NOTICE

PRODUCT CHANGE NOTICE

MAXIM INTEGRATED HEREBY ISSUES NOTIFICATION OF CHANGE
THAT MAY AFFECT THE FOLLOWING CATEGORIES:

<input type="checkbox"/> DESIGN	<input type="checkbox"/> WAFER FAB	<input checked="" type="checkbox"/> ASSEMBLY	<input type="checkbox"/> TEST	<input type="checkbox"/> ELEC/MECH SPECS
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AFFECTED PRODUCT:

Ordering P/N: (See PN listing XLS in PCN ZIP file)
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CHANGE FROM: - External metal can supplier (Anode and cathode) currently used for assembly of F50 ibuttons	CHANGE TO: - Additional supplier for external metal can (Anode and cathode)
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JUSTIFICATION: The new supplier for this F50 external metal can is qualified and in volume production for assembly of our smaller F30 external metal can devices (ibuttons). A qualification report R40485 for the new vendor is attached. There are no other changes to the form, fit or function of these devices.

TRACEABILITY: Maxim Integrated maintains full traceability by device marking, packaging labels and shipment documents.

Maxim Integrated's Change Notification System is designed to keep our customer base apprised of major product, manufacturing, or facility improvements.

Nasser Ali Chaouche

Nasser AliChaouche / PCN Coordinator

For further information, please contact either of the people listed below.

Contact your local Maxim Integrated Company Representative or Nasser AliChaouche, PCN Coordinator
408-601-5660 / pcn.coordinator@maximintegrated.com

Affected product numbers	Customer part number	PCN Proposed Ship Date
DS1904L-F5#		05-Feb-20
DS1920-F5+		05-Feb-20
DS1921G-F5#		05-Feb-20
DS1921G-F5#A0C		05-Feb-20
DS1921G-F5#A0D		05-Feb-20
DS1921G-F5#A12		05-Feb-20
DS1921G-F5#A15		05-Feb-20
DS1921G-F5#A1B		05-Feb-20
DS1921G-F5#A22		05-Feb-20
DS1921G-F5N#		05-Feb-20
DS1921H-F5#		05-Feb-20
DS1921Z-F5#		05-Feb-20
DS1961S-002+4-F5		05-Feb-20
DS1961S-002+8-F5		05-Feb-20
DS1961S-002+A-F5		05-Feb-20
DS1961S-F5+		05-Feb-20
DS1961S-W48/1-F5+		05-Feb-20
DS1963R-F5+		05-Feb-20
DS1963S-F5+		05-Feb-20
DS1964S-F5+		05-Feb-20
DS1971-004-550/1+		05-Feb-20
DS1971-F5+		05-Feb-20
DS1972-F5+		05-Feb-20
DS1973-F5+		05-Feb-20
DS1977-F5#		05-Feb-20
DS1982-00A-00/1+		05-Feb-20
DS1982-035-01-F5+		05-Feb-20
DS1982-F5+		05-Feb-20
DS1982U-F5-1168#		05-Feb-20
DS1985-F5+		05-Feb-20
DS1990A-035-01+F5C		05-Feb-20
DS1990A-037-01#F5		05-Feb-20
DS1990A-110-01+F5		05-Feb-20

DS1990A-F5#A21		05-Feb-20
DS1990A-F5+		05-Feb-20
DS1990A-F5+E4F		05-Feb-20
DS1990A-F5+E8F		05-Feb-20
DS1990A-F5-ECB+		05-Feb-20
DS1990C-F5+		05-Feb-20
DS1990R-F5#		05-Feb-20
DS1992L-F5+		05-Feb-20
DS1993L-F5+		05-Feb-20
DS1994L-F5+		05-Feb-20
DS1995L-F5+		05-Feb-20
DS1996L-F5+		05-Feb-20
DS9092R+		05-Feb-20

1) PURPOSE

Qualifying an additional supplier for external metal can (Anode and cathode) for F50 iButton products

2) QUALIFICATION REQUIREMENTS AND RESULTS

Rel#			R40485A	R40485B
Lot#			MK428547AAB-QAL	MK428540AAB-QAL
Device:			90-1990A+F50	90-1990A+F50
Die Type:			A0916B	A0916B
Package Type (code):			IB+5NA	IB+5NA
Date Code:			201907	201907
Stress Test	Duration	Sampling Plan	Result	Result
Moisture Resistivity Test*1 85°C/85% R.H. (Unbiased)	500 Hrs	0/77	0/77	0/77
Temperature Cycle *1 -55°C to 125°C	500 cyc.	0/77	0/77	0/77
High Temp Storage *1 125°C	500 Hrs	0/77	0/77	0/77

Note:

*1. Electrical tests pre- and post-stress were performed at +25°C.

3) CONCLUSION

Qualification of F50 iButton module parts assembled at Maxim/Philippines (MPOC) have passed reliability qualification (Conditional Qualification Requirements/Acceptance Criteria). Maxim/Philippines is conditionally approved to build F50 iButton devices using Anode/Cathode cans from new vendor. iButtons modules are not moisture-related and do not require bake and dry pack.

4) Package Coverage

All F50 Ibutton Modules processed by MPOC assembly.