PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package | Pins	Package qty | Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
F29H850DM4SPZSR	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-	F29H850DM4S PZS
F29H850DM6SPZSR	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-	F29H850DM6S PZS
F29H850DM7SPTS	Active	Production	HTQFP (PTS) | 176	60 | JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	F29H850DM7S PTS
F29H850DM7SRFS	Active	Production	HTQFP (RFS) | 144	84 | JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	F29H850DM7S RFS
F29H850DM7TZEXR	Active	Production	NFBGA (ZEX) | 256	1000 | LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-	F29H850DM7T ZEX
F29H850DU7SPTS	Active	Production	HTQFP (PTS) | 176	60 | JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-	F29H850DU7S PTS
F29H850TU9SPTS	Active	Production	HTQFP (PTS) | 176	60 | JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F29H850TU9S PTS
F29H850TU9SRFS	Active	Production	HTQFP (RFS) | 144	84 | JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F29H850TU9S RFS
F29H850TU9TZEXR	Active	Production	NFBGA (ZEX) | 256	1000 | LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F29H850TU9T ZEX
F29H859TU8QPTSRQ1	Active	Production	HTQFP (PTS) | 176	500 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29H859TU8Q PTSQ
F29H859TU8QPZSRQ1	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29H859TU8Q PZSQ
F29H859TU8QRFSRQ1	Active	Production	HTQFP (RFS) | 144	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29H859TU8Q RFSQ
F29H859TU8QZEXRQ1	Active	Production	NFBGA (ZEX) | 256	1000 | LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F29H859TU8Q ZEXQ
F29P329SM1QPZSRQ1	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P329SM1Q PZSQ
F29P329SM1QRFSRQ1	Active	Production	HTQFP (RFS) | 144	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P329SM1Q RFSQ
F29P329SM2QPZSRQ1	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P329SM2Q PZSQ

Orderable part number	Status (1)	Material type (2)	Package | Pins	Package qty | Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
F29P329SM2QRFSRQ1	Active	Production	HTQFP (RFS) | 144	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P329SM2Q RFSQ
F29P580DM5TZEXR	Active	Production	NFBGA (ZEX) | 256	1000 | LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-	F29P580DM5T ZEX
F29P589DM5QPZSRQ1	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P589DM5Q PZSQ
F29P589DM5QRFSRQ1	Active	Production	HTQFP (RFS) | 144	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P589DM5Q RFSQ
F29P589DU5QPTSRQ1	Active	Production	HTQFP (PTS) | 176	500 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P589DU5Q PTSQ
F29P589DU5QPZSRQ1	Active	Production	HTQFP (PZS) | 100	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P589DU5Q PZSQ
F29P589DU5QRFSRQ1	Active	Production	HTQFP (RFS) | 144	1000 | LARGE T&R	Yes	NIPDAU	Level-3-250C-168 HR	-40 to 125	F29P589DU5Q RFSQ
F29P589DU5QZEXRQ1	Active	Production	NFBGA (ZEX) | 256	1000 | LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F29P589DU5Q ZEXQ
XF29H859TU8QPTSQ1	Active	Preproduction	HTQFP (PTS) | 176	60 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QPTSQ1.A	Active	Preproduction	HTQFP (PTS) | 176	60 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QPZSQ1	Active	Preproduction	HTQFP (PZS) | 100	96 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QPZSQ1.A	Active	Preproduction	HTQFP (PZS) | 100	96 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QRFSQ1	Active	Preproduction	HTQFP (RFS) | 144	420 | JEDEC TRAY (5+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QRFSQ1.A	Active	Preproduction	HTQFP (RFS) | 144	420 | JEDEC TRAY (5+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QZEXQ1	Active	Preproduction	NFBGA (ZEX) | 256	119 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	
XF29H859TU8QZEXQ1.A	Active	Preproduction	NFBGA (ZEX) | 256	119 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	
XF29P329SM2QPZSQ1	Active	Preproduction	HTQFP (PZS) | 100	96 | JEDEC TRAY (10+1)	-	Call TI	Call TI	-40 to 125	

(1) **Status:** For more details on status, see our product life cycle.

(2) **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

(3) **RoHS values:** Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

(4) **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

(5) **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

(6) **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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