

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)
F28P650DH6NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 NMR
F28P650DH6NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 NMR
F28P650DH6NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 NMR
F28P650DH6PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 PTP
F28P650DH6PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 PTP
F28P650DH6PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 PTP
F28P650DH6PZPR	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 PZP
F28P650DH6PZPR.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 PZP
F28P650DH6PZPR.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 PZP
F28P650DH6ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 ZEJ
F28P650DH6ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 ZEJ
F28P650DH6ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DH6 ZEJ
F28P650DK6NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 NMR
F28P650DK6NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 NMR
F28P650DK6NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 NMR
F28P650DK6PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PTP

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F28P650DK6PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PTP
F28P650DK6PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PTP
F28P650DK6PZP	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PZP
F28P650DK6PZP.A	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PZP
F28P650DK6PZP.B	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PZP
F28P650DK6PZPR	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PZP
F28P650DK6PZPR.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PZP
F28P650DK6PZPR.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 PZP
F28P650DK6ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 ZEJ
F28P650DK6ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 ZEJ
F28P650DK6ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK6 ZEJ
F28P650DK7NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 NMR
F28P650DK7NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 NMR
F28P650DK7NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 NMR
F28P650DK7PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 PTP
F28P650DK7PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 PTP
F28P650DK7PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 PTP

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F28P650DK7ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 ZEJ
F28P650DK7ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 ZEJ
F28P650DK7ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK7 ZEJ
F28P650DK8NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 NMR
F28P650DK8NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 NMR
F28P650DK8NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 NMR
F28P650DK8PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 PTP
F28P650DK8PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 PTP
F28P650DK8PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 PTP
F28P650DK8ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 ZEJ
F28P650DK8ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 ZEJ
F28P650DK8ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK8 ZEJ
F28P650DK9NMR	Active	Production	NFBGA (NMR) 169	260 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 NMR
F28P650DK9NMR.A	Active	Production	NFBGA (NMR) 169	260 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 NMR
F28P650DK9NMR.B	Active	Production	NFBGA (NMR) 169	260 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 NMR
F28P650DK9NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 NMR
F28P650DK9NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 NMR

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F28P650DK9NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 NMR
F28P650DK9PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 PTP
F28P650DK9PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 PTP
F28P650DK9PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 PTP
F28P650DK9ZEJ	Active	Production	NFBGA (ZEJ) 256	119 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 ZEJ
F28P650DK9ZEJ.A	Active	Production	NFBGA (ZEJ) 256	119 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 ZEJ
F28P650DK9ZEJ.B	Active	Production	NFBGA (ZEJ) 256	119 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 ZEJ
F28P650DK9ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 ZEJ
F28P650DK9ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 ZEJ
F28P650DK9ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650DK9 ZEJ
F28P650SH6NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 NMR
F28P650SH6NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 NMR
F28P650SH6NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 NMR
F28P650SH6PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PTP
F28P650SH6PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PTP
F28P650SH6PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PTP
F28P650SH6PZP	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PZP

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F28P650SH6PZPR	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PZP
F28P650SH6PZPR.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PZP
F28P650SH6PZPR.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 PZP
F28P650SH6ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 ZEJ
F28P650SH6ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 ZEJ
F28P650SH6ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH6 ZEJ
F28P650SH7NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 NMR
F28P650SH7NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 NMR
F28P650SH7NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 NMR
F28P650SH7PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 PTP
F28P650SH7PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 PTP
F28P650SH7PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 PTP
F28P650SH7ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 ZEJ
F28P650SH7ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 ZEJ
F28P650SH7ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SH7 ZEJ
F28P650SK6NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 NMR
F28P650SK6NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 NMR

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F28P650SK6NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 NMR
F28P650SK6PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 PTP
F28P650SK6PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 PTP
F28P650SK6PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 PTP
F28P650SK6PZPR	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 PZP
F28P650SK6PZPR.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 PZP
F28P650SK6PZPR.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 PZP
F28P650SK6ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 ZEJ
F28P650SK6ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 ZEJ
F28P650SK6ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK6 ZEJ
F28P650SK7NMRR	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 NMR
F28P650SK7NMRR.A	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 NMR
F28P650SK7NMRR.B	Active	Production	NFBGA (NMR) 169	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 NMR
F28P650SK7PTP	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 PTP
F28P650SK7PTP.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 PTP
F28P650SK7PTP.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 PTP
F28P650SK7ZEJR	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 ZEJ

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F28P650SK7ZEJR.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 ZEJ
F28P650SK7ZEJR.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P650SK7 ZEJ
F28P659DH8PZPRQ1	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DH8 PZPQ
F28P659DH8PZPRQ1.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DH8 PZPQ
F28P659DH8PZPRQ1.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DH8 PZPQ
F28P659DK8PTPQ1	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PTPQ
F28P659DK8PTPQ1.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PTPQ
F28P659DK8PTPQ1.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PTPQ
F28P659DK8PZPQ1	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PZPQ
F28P659DK8PZPQ1.A	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PZPQ
F28P659DK8PZPQ1.B	Active	Production	HTQFP (PZP) 100	90 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PZPQ
F28P659DK8PZPRQ1	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PZPQ
F28P659DK8PZPRQ1.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PZPQ
F28P659DK8PZPRQ1.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 PZPQ
F28P659DK8ZEJQ1	Active	Production	NFBGA (ZEJ) 256	119 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 ZEJQ
F28P659DK8ZEJQ1.A	Active	Production	NFBGA (ZEJ) 256	119 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 ZEJQ
F28P659DK8ZEJQ1.B	Active	Production	NFBGA (ZEJ) 256	119 JEDEC TRAY (10+1)	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 ZEJQ

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)
F28P659DK8ZEJRQ1	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 ZEJQ
F28P659DK8ZEJRQ1.A	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 ZEJQ
F28P659DK8ZEJRQ1.B	Active	Production	NFBGA (ZEJ) 256	1000 LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 125	F28P659DK8 ZEJQ
F28P659SH6PTPQ1	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659SH6 PTPQ
F28P659SH6PTPQ1.A	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659SH6 PTPQ
F28P659SH6PTPQ1.B	Active	Production	HLQFP (PTP) 176	40 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659SH6 PTPQ
F28P659SH6PZPRQ1	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659SH6 PZPQ
F28P659SH6PZPRQ1.A	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659SH6 PZPQ
F28P659SH6PZPRQ1.B	Active	Production	HTQFP (PZP) 100	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28P659SH6 PZPQ

(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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