

P1013NXN2LFB Information

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General Information

Parameter	Value
Part Number	P1013NXN2LFB
Description	1067/533/667 ET TMP NE PBFR
Product Line	GGT1013
PTI	NPHC
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	COMMERCIAL, INDUSTRIAL

Package Information

Parameter	Value
Package Description and Mechanical Drawing	TEPBGA 689 31*31*2.23 P1
Device Weight (g)	5.24720
Pin/Lead/Ball Count	689
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal) (mm)	31.000
Package Width (nominal) (mm)	31.000
Package Thickness (nominal) (mm)	2.230
Tape & Reel	No

Environmental and Compliance Information

Parameter	Value
Pb-Free	

RoHS Compliant**Halogen Free**

Yes

Material Composition Declaration (MCD)[Download MCD Report](#) [Download MCD Report](#)

RoHS Certificate of Analysis (CoA)

[Download RoHS CoA Report](#)**2nd Level Interconnect**

e2

Moisture Sensitivity Level (MSL)

3

Floor Life

168 HOURS

Peak Package Body Temperature (PPT)(°C)

260

Maximum Time at Peak Temperature (s)

40

Number of Reflow Cycles

3

REACH SVHC

[Freescale REACH Statement](#)

UL94 (plastics flammability test)

V0: burning stops within 10 seconds on a vertical specimen; no drips allowed

Manufacturing Information

Parameter	Value
Micron Size (µm)	.04

Ordering Information

Parameter	Value
Minimum Package Quantity (MPQ)	1
MPQ Container	TRAY
Preferred Order Quantity (POQ)	135
POQ Container	BOX
Leadtime (weeks)	18
Export Control Classification Number (US)	5A992
Harmonized Tariff (US) Disclaimer	8542.31.0000

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
15008	Product Bulletin	ESDHC Host May Not Detect SD Card Insertion/Removal Using DAT3 Signal	13 Feb 2012	14 Feb 2013
14344	Product Bulletin	ERRATUM: E500 CORE ERRONEOUS FLOATING POINT EXCEPTION	20 Oct 2010	21 Oct 2010

Operating Characteristics

Parameter	Value
32-bit Product Family	Power Architecture
Additional Features	ATA Controller Encryption Hardware Accelerato
Ambient Operating Temperature (Min-Max) (°C)	-40 to 125
Bus Frequency (Max) (MHz)	533
Cache (kByte)	32
Communication Protocol	Ethernet
Core: Number of cores (Spec)	1
Core: Operating Frequency Max (Max) (MHz)	1067
Core: Type	e500
Ethernet	10/100/1000 BaseT
External Bus Interface	PCI-Express
External Memory Supported	DDR3 SDRAM DDR2
I/O Pins	87
Junction Operating Temperature (Max) (°C)	125
L2 Cache (Max) (kByte)	256
Sample Exception Availability	Y
Serial Interface - Number of Interfaces	2 2 2 1 2 1
Serial Interface - Type	I2C UART USB SSI eTSEC TDM
USB	USB 2.0

Reliability Data Lookup