

MC68HC16Z1CFC20 Information

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General Information

Parameter	Value
Part Number	MC68HC16Z1CFC20
Description	16 BIT MCU, 1K RAM
PTI	JCLF
Material Type	Tested Packaged Device
Life Cycle Description (code)	REMOVED FROM ACTIVE PORTFOLIO
Status	Migration Complete. No Longer Manufactured. View PCN and Replacement Part
Application/Qualification Tier	10-YEARS APPLICATION LIFE

Package Information

Parameter	Value
Package Description and Mechanical Drawing	PQFP 132 0.950*.950P.025
Device Weight(g)	4.72450
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal)(mm)	25.400
Package Width (nominal)(mm)	25.400
Package Thickness (nominal)(mm)	4.310
Tape & Reel	No

Environmental and Compliance Information

Parameter	Value
Pb-Free	No
RoHS Compliant	No
Material Composition Declaration (MCD)	Download MCD Report  Download MCD Report 
RoHS Certificate of Analysis (CoA)	Download RoHS CoA Report
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Peak Package Body Temperature (PPT)(°C)	220
Maximum Time at Peak Temperature (s)	30
Number of Reflow Cycles	3
REACH SVHC	Freescalereach.com/REACHStatement
UL94 (plastics flammability test)	V0: Burning stops within 10 seconds on a vertical specimen; no drips allowed

Replacement Parts information for MC68HC16Z1CFC20

Replacement Part	Replacement Type	Replacement Reason	Status	Device Sample Availability	Device Production Availability	Further Replacements	Replacement Part Details
MC68HC16Z1CEH20	-	REGULATORY OR LEGAL CHANGE	Not Recommended for New Design	28 Jun 2005	28 Jun 2005	-	

Manufacturing Information

Parameter	Value
Micron Size(?m)	.55

Ordering Information

Parameter	Value
Last Order Date	30 Jun 2006
Last Ship Date	30 Dec 2006
Exempt from Minimum Delivery Value	Yes
Export Control Classification Number (US)	EAR99
Harmonized Tariff (US) Disclaimer	8542.31.0000
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US\$) Change Currency	-
Order	

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
11713	Device Migration	TSPG MCD ROHS COMPLIANT NON-EXEMPT - 2	09 Jan 2006	09 Jan 2006
11462	Product Bulletin	TSPG MCD ROHS COMPLIANT DEVICE MIGRATION	14 Oct 2005	15 Oct 2005
11431	Product Bulletin	TSPG MCD ROHS COMPLIANT DEVICE MIGRATION	04 Oct 2005	05 Oct 2005
11342	Update Notification	UPDATE TO TSPG BAT3 PROBE EXPANSION	31 Aug 2005	27 Sep 2005
11262	Product Change Notice	TSPG BAT3 PROBE EXPANSION	19 Aug 2005	17 Nov 2005
11122	Product Change Notice	TSPG BAT3 PROBE EXPANSION	07 Jul 2005	05 Oct 2005
10742	Product Bulletin	KLM PACKING CHANGE FOR TRAY DEVICES	28 Mar 2005	02 Apr 2005
10021	Product Bulletin	TSPG-TECD PB-FREE PACKAGE QUALIFICATION	17 Jun 2004	18 Jun 2004
9846	Product Bulletin	TSPG-TECD PB-FREE PACKAGE QUALIFICATION	06 May 2004	07 May 2004
9048	Product Bulletin	TIC SUPPORT FOR QUALITY QUERIES IN EMEA	04 Aug 2003	05 Aug 2003
8178	Product Bulletin	HC16Z1 MOS12 QUALIFICATION	01 Nov 2002	02 Nov 2002
7258	Product Change Notice	TRANSFER PRODUCTS FROM TSC8	01 Mar 2002	10 Jun 2002
5182	Product Bulletin	EQUIPMENT CAPACITY IN MOS12 WAFER FAB	20 Oct 1999	21 Oct 1999
4260	Product Bulletin	TRAY SECURING PROCESS FOR SHIPPING	11 Jan 1999	12 Jan 1999
3787	Product Bulletin	ADDITION OF SOLDER PLATING BATH SOLUTION	28 Aug 1998	05 Aug 1998
3492	Product Change Notice	QUALIFICATION OF THE TSC8 82.-% UDR (H35S) 68HC16Z1 MASK	11 Mar 1998	19 Jun 1998

Operating Characteristics

Parameter	Value
Additional Features	External Memory Controller
Ambient Operating Temperature (Min-Max) (°C)	-40 to 85
Bus Frequency (Max) (MHz)	20
Device Production Availability	28 Jun 2005
Device Sample Availability	28 Jun 2005
GPIOs	16
Internal RAM (KB)	1
Sample Exception Availability	N
Serial Interface - Serial Interface Type	SCI QSPI
Timers - Timer Channels	8
Timers - Timer Size (bit)	16

[Reliability Data Lookup](#)