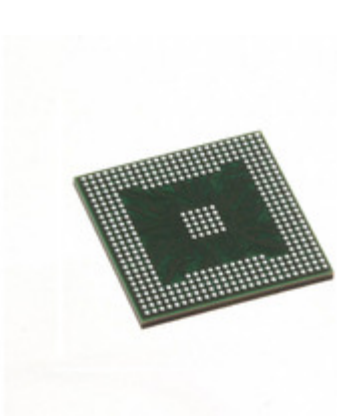


5CEFA2M13C7N



Images are for reference only.
See Product Specifications for product details.
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Part Number: [5CEFA2M13C7N](#)

Manufacturer: [Altera \(Intel® Programmable Solutions Group\)](#)

Description: IC FPGA 223 I/O 383MBGA

Data sheet:  [Cyclone V Device Overview](#)
 [Cyclone V GX,GT,E Errata](#)
 [Cyclone V Device Datasheet](#)
 [Cyclone V Device Handbook](#)
 [Virtual JTAG Megafuntion User Guide](#)

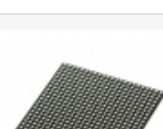
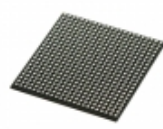
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PRODUCT PARAMETER			
Part Number	5CEFA2M13C7N	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 223 I/O 383MBGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	1612 pcs	Data sheet	Cyclone V Device Overview Cyclone V GX,GT,E Errata Cyclone V Device Datasheet Cyclone V Device Handbook Virtual JTAG Megafuntion User Guide
Category	Integrated Circuits (ICs)	Voltage - Supply	1.07 V ~ 1.13 V
Total RAM Bits	2002944	Supplier Device Package	383-MBGA (13x13)
Series	Cyclone® V E	Package / Case	383-FBGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	25000
Number of LABs/CLBs	9434	Number of I/O	223
Mounting Type	Surface Mount	Moisture Sensitivity Level (MSL)	3 (168 Hours)
Lead Free Status / RoHS Status	Lead free / RoHS Compliant	Base Part Number	5CEFA2
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