

INTEGRATED CIRCUITS, SILICON MONOLITHIC, CMOS, CELL-BASED ARRAY, BASED ON TYPE ATC18RHA ASIC FAMILY				357A
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 9000	Microchip Technology Nantes France	Qualification	CNES	Apr 2019
Detail ESCC 9202/080, 9512/004, 9304/165, 9512/005				
The Technology Flow is described into the current QML document (REP006).				
9202/080	Integrated circuits, silicon monolithic, CMOS, cell-based array	Based on type ATC18RHA		
Available standard components:				
9512/004	Integrated Circuits, Silicon, 32-bit SPARC Processor	Based on type AT697F		
9304/165	Integrated Circuits, Silicon, monolithic, CMOS digital, Field Programmable Gate Array, 280000 gates	Based on type ATF280F		
9512/005	Integrated Circuits, Silicon, monolithic, SPARC V8 GNSS Controller	Based on type AT991		

INTEGRATED CIRCUITS, CMOS, CELL-BASED ARRAY, BASED ON ATMX150RHA ASIC FAMILY				359A
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 9000	Microchip Technology Nantes France	Qualification	ESA/ESTEC	Apr 2019
Detail ESCC 9202/083		Remarks		
<p>The Technology Flow is described into the current QML document (REP006).</p> <p>The qualified range includes variants 75 to 164 from ESCC 9202/083 (Flat-Substrate package).</p>				
9202/083	Integrated circuits, CMOS, cell-based array. Ph2, Digital only, up to 22Mgates, 5ML+ thick metal layer.		Based on type ATMX150RHA	

INTEGRATED CIRCUITS, SILICON, MONOLITHIC, RADIATION-HARDENED 32-BIT ARM CORTEX-M7 MICROCONTROLLER				372		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date		
Generic ESCC 9000 Detail ESCC 9512/006	Microchip Technology Nantes France	Qualification	ESA/ESTEC	May 2021		
Remarks						
Qualified range:						
Detail spec	Variant Number	Based on Type	Case	Terminal Material and Finish	Weight max g	Total Dose Radiation Level Letter
9512/006	01	SAMRH71	CQFP-256	D2	18	R [100krad(Si)]
Operating Temperature Range (°C): -55 to +125						