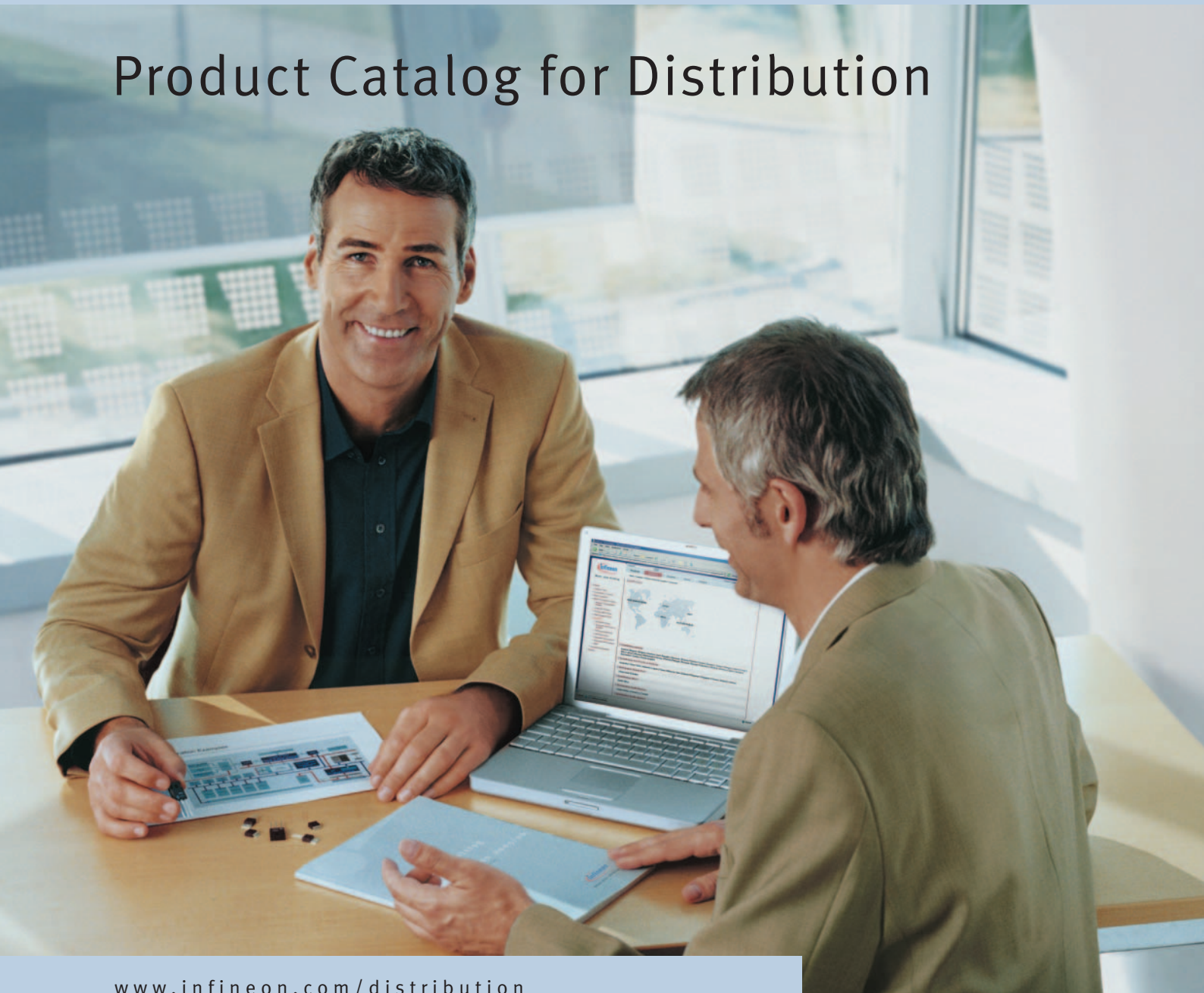


Product Catalog for Distribution



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Microcontrollers



Never stop thinking

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We are pleased to present the updated Product Catalog for Distribution 2006/2007. This catalog outlines the full range of semiconductors available from Infineon Technologies through our distribution channel.

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- ® Registered trademark
- TM Trademark

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Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 32-bit			
▼ SAF-TC1100-L100EB BB-Step	SP000099818	P-LBGA-208-2	Consumer class TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, multifunctional general purpose timer unit with three 32-bit timer/counters, one capture and compare unit 6 for PWM signal generation, 100-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1100-L100EB-G BB-Step	SP000106546	PG-LBGA-208-2	SAF-TC1100-L100EB, tray
▼ SAF-TC1100-L100EB BB-Step	SP000099817	P-LBGA-208-2	as SAF-TC1100-L100EB, tape & reel
▼ SAF-TC1100-L100EB-G BB-Step	SP000106545	PG-LBGA-208-2	
▼ SAF-TC1100-L150EB BB-Step	SP000106548	P-LBGA-208-2	as SAF-TC1100-L100EB, 150-MHz clock frequency, tray
▼ SAF-TC1100-L150EB-G BB-Step	SP000099816	PG-LBGA-208-2	
▼ SAF-TC1100-L150EB BB-Step	SP000106547	P-LBGA-208-2	as SAF-TC1100-L100EB, 150-MHz clock frequency, tape & reel
▼ SAF-TC1100-L150EB-G BB-Step	SP000099815	PG-LBGA-208-2	
▼ SAF-TC1115L-100EB BB-Step	SP000099814	P-LBGA-208-2	High performance TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, multifunctional general purpose timer unit with three 32-bit timer/counters, two capture and compare unit 6 for PWM signal generation, multiCAN module with four CAN nodes, 100-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1115L-100EB-G BB-Step	SP000106544	PG-LBGA-208-2	as SAF-TC1115L-100EB, tray
▼ SAF-TC1115L-100EB BB-Step	SP000099813	P-LBGA-208-2	as SAF-TC1115L-100EB, tape & reel
▼ SAF-TC1115L-100EB-G BB-Step	SP000106543	PG-LBGA-208-2	
▼ SAF-TC1115L-150EB BB-Step	SP000106542	P-LBGA-208-2	as SAF-TC1115L-100EB, 150-MHz clock frequency, tray
▼ SAF-TC1115L-150EB-G BB-Step	SP000099812	PG-LBGA-208-2	
▼ SAF-TC1115L-150EB BB-Step	SP000106541	P-LBGA-208-2	as SAF-TC1115L-100EB, 150-MHz clock frequency, tape & reel
▼ SAF-TC1115L-150EB-G BB-Step	SP000099811	PG-LBGA-208-2	
▼ SAF-TC1130L-100EB BB-Step	SP000099810	P-LBGA-208-2	Industrial communication controller, TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, fast Ethernet controller with 10/100-Mbit/s, multifunctional general purpose timer unit with three 32-bit timer/counters, two capture and compare unit 6 for PWM signal generation, multiCAN module with four CAN nodes, 100-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1130L-100EB-G BB-Step	SP000106540	PG-LBGA-208-2	as SAF-TC1130L-100EB, tray
▼ SAF-TC1130L-100EB BB-Step	SP000099809	P-LBGA-208-2	as SAF-TC1130L-100EB, tape & reel
▼ SAF-TC1130L-100EB-G BB-Step	SP000106539	PG-LBGA-208-2	
▼ SAF-TC1130L-150EB BB-Step	SP000099808	P-LBGA-208-2	as SAF-TC1130L-100EB, 150-MHz frequency, tray
▼ SAF-TC1130L-150EB-G BB-Step	SP000106538	PG-LBGA-208-2	
▼ SAF-TC1130L-150EB BB-Step	SP000099807	P-LBGA-208-2	as SAF-TC1130L-150EB, tape & reel
▼ SAF-TC1130L-150EB-G BB-Step	SP000106119	PG-LBGA-208-2	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 32-bit (cont'd)			
▼ SAF-TC1161-128F66HL AA-Step	SP000105856	P-LQFP-176-1	High performance TriCore™ CPU with 4-stage pipeline, 1-Mbyte embedded program flash, 16-Kbyte data flash, 48-Kbyte on-chip SRAM, floating point unit, 16-channel analog-to-digital converter unit with 8-, 10- or 12-bit resolution, general purpose timer array module, two asynchronous/synchronous serial channels with baud generator, 2-channel fast analog-to-digital converter unit, OCDS level 1 and 2, 66-MHz clock frequency, –40°C to 85°C, tray
▼ SAF-TC1162-128F66HL AA-Step	SP000105857	P-LQFP-176-1	as SAF-TC1161-128F66HL, with multiCAN module, two CAN nodes, tray
▼ SAF-TC1163-128F80HL AA-Step	SP000105858	PG-LQFP-176-1	as SAF-TC1161-128F66HL, 56-Kbyte on-chip SRAM, 80-MHz clock frequency, –40°C to 85°C, tray
▼ SAF-TC1164-128F80HL AA-Step	SP000105859	PG-LQFP-176-1	as SAF-TC1163-128F80HL, with multiCAN module, two CAN nodes, –40°C to 85°C, tray
▼ SAF-TC1165-192F80HL AA-Step	SP000105860	PG-LQFP-176-1	as SAF-TC1161-128F66HL, 1.5-Mbyte embedded program flash, 32-Kbyte data flash, 80-Kbyte on-chip SRAM, 80-MHz clock frequency, –40°C to 85°C, tray
▼ SAF-TC1166-192F80HL AA-Step	SP000105861	PG-LQFP-176-1	as SAF-TC1165-192F80HL, with multiCAN module, two CAN nodes, tray
▼ SAK-TC1765N-L40EB AC-Step	SP000013498	P-LBGA-260-2	Advanced TriCore™ based controller for automotive and industrial applications (AUDO1™ family), 8-channel DMA controller, 48-Kbyte on-chip SRAM, multifunctional general purpose timer unit, watchdog timer, two on-chip CAN interfaces, two A/D converter, 40-MHz clock frequency, OCDS level 1, –40°C to 125°C, tray
▼ SAK-TC1765N-L40EB-G AC-Step	SP000235281	PG-LBGA-260-2	
▼ SAK-TC1765T-L40EB AC-Step	SP000094463	P-LBGA-260-2	as SAK-TC1765N-L40EB, additional 16-bit OCDS level 2 trace port, tape & reel
SAK-TC1775-L40E BA-Step	SP000012965	P-BGA-329-1	Highly integrated TriCore™ based controller for automotive and industrial applications (AUDO1™ family), 93-Kbyte on-chip SRAM, multifunctional general purpose timer unit, watchdog timer, two on-chip CAN interfaces, two A/D converter, 40-MHz clock frequency, on-chip debug support (OCDS level 2), –40°C to 125°C, tray
▼ SAK-TC1775-L40E-G BA-Step	SP000235280	PG-BGA-329-1	
▼ SAK-TC1766-192F80HL BB-Step	SP000101658	PG-LQFP-176-1	High performance TriCore™ CPU with 4-stage pipeline (AUDO-NG family), 1.5-Mbyte embedded program flash, 32-Kbyte data flash, 76-Kbyte on-chip SRAM, floating point unit, one 32-channel analog-to-digital converter unit with 8-, 10- or 12-bit resolution, general purpose timer array module, two synchronous serial channels with programmable data length and shift direction, 2-channel fast analog-to-digital converter unit, OCDS level 1 and 2, with multiCAN module, two CAN nodes, 80-MHz clock frequency, –40°C to 125°C, tray
SAF-TC1796-256F100E BC-Step	SP000064091	P-BGA-416-4	Highly integrated TriCore™ based controller for high-end automotive and industrial applications (AUDO-NG family), 2-Mbyte embedded program flash with ECC, 128-Kbyte data flash for scalable 16-Kbyte EEPROM emulation, 208-Kbyte on-chip SRAM, 16-Kbyte instruction cache, single precision floating point unit (FPU), 16-channel DMA controller, multifunctional general purpose timer unit, watchdog timer, two A/D converter, on-chip debug support (OCDS level 2), four CAN nodes, 100-MHz clock frequency, –40°C to 85°C, tray
SAF-TC1796-256F150E BC-Step	SP000064092	P-BGA-416-4	as SAF-TC1796-256F100E, 150-MHz clock frequency, tray
▼ SAF-TC1796-256F150E BC-Step	SP000096055	P-BGA-416-4	as SAF-TC1796-256F150E, tape & reel
▼ SAK-TC1796-256F150E BC-Step	SP000097528	P-BGA-416-4	as SAK-TC1796-256F150E, tape & reel
▼ SAK-TC1796-256F150E BD-Step	SP000228013	P-BGA-416-4	
▼ SAK-TC1796-256F150E-G BD-Step	SP000228336	PG-BGA-416-4	as SAF-TC1796-256F150E, –40°C to 125°C, tray

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit			
▼ SAB-C161CS-LF CA-Step	SP000053817	P-TQFP-128-2	ROMless, 10-Kbyte on-chip SRAM, two on-chip CAN-interfaces (CAN1,CAN2), two 16-channel capture/compare units, 12-channel 10-bit ADC, watchdog timer, oscillator watchdog, additional 32-kHz oscillator, 25-MHz clock frequency, tray
▼ SAB-C161CS-LF CA-Step	SP000106860	PG-TQFP-128-2	
▼ SAB-C161CS-LF CA-Step	SP000016425	P-TQFP-128-2	as SAB-C161CS-LF, tape & reel
▼ SAB-C161CS-LF CA-Step	SP000106861	PG-TQFP-128-2	
SAF-C161CS-LF CA-Step	SP000016999	P-TQFP-128-2	as SAB-C161CS-LF, –40°C to 85°C, tray
▼ SAF-C161CS-LF	SP000106865	PG-TQFP-128-2	
▼ SAF-C161CS-LF	SP000014380	P-TQFP-128-2	as SAF-C161CS-LF, tape & reel
▼ SAF-C161CS-LF	SP000106866	PG-TQFP-128-2	
▼ SAK-C161CS-LF CA-Step	SP000016997	P-TQFP-128-2	as SAF-C161CS-LF, –40°C to 125°C, tray
▼ SAK-C161CS-LF CA-Step	SP000106868	PG-TQFP-128-2	
▼ SAK-C161CS-LF CA-Step	SP000016998	P-TQFP-128-2	as SAF-C161CS-LF, –40°C to 125°C, tape & reel
▼ SAK-C161CS-LF CA-Step	SP000106869	PG-TQFP-128-2	
▼ SAB-C161JC-LF CA-Step	SP000057562	P-TQFP-128-2	as SAB-C161CS-LF, one on-chip CAN-interface (CAN1), serial data link module J1850 (SDLM), tray
▼ SAB-C161JC-LF CA-Step	SP000057563	P-TQFP-128-2	as SAB-C161JC-LF, tape & reel
▼ SAK-C161JC-LF CA-Step	SP000057699	P-TQFP-128-2	as SAB-C161JC-LF, –40°C to 125°C, tray
▼ SAK-C161JC-LF CA-Step	SP000057698	P-TQFP-128-2	as SAK-C161JC-LF, tape & reel
▼ SAB-C161JI-LF CA-Step	SP000057588	P-TQFP-128-2	as SAB-C161JC-LF, without CAN-interface (CAN1), tape & reel
▼ SAF-C161JI-LF CA-Step	SP000057564	P-TQFP-128-2	as SAB-C161JI-LF, –40°C to 85°C, tape & reel
SAK-C161JI-32RF CA-Step	SP000065641	P-TQFP-128-2	as SAB-C161JI-LF, 256-Kbyte on-chip ROM, –40°C to 125°C, tray
▼ SAK-C161JI-32RF CA-Step	SP000057491	P-TQFP-128-2	as SAK-C161JI-32RF, tape & reel
SAB-C161K-LM HA-Step	SP000011584	P-MQFP-80-1	ROMless, 1-Kbyte on-chip RAM, one general purpose timer unit with 3 timers, two serial interfaces, 4 fast external interrupt inputs, 4-Mbyte address range, two chip select signals, DMUX bus, additional timer unit with capture input, operating range 5 V, 20-MHz clock frequency, tray
SAB-C161K-LM HA-Step	SP000011585	P-MQFP-80-1	as SAB-C161K-LM, tape & reel
SAF-C161K-LM HA-Step	SP000011620	P-MQFP-80-1	as SAB-C161K-LM, –40°C to 85°C, tray
▼ SAF-C161K-LM3V HA-Step	SP000011621	P-MQFP-80-1	as SAB-C161K-LM, operating range 3 V, –40°C to 85°C, tape & reel
SAB-C161O-LM HA-Step	SP000011586	P-MQFP-80-1	as SAB-C161K-LM, 2-Kbyte on-chip internal RAM, two general purpose timer units with 5 timers, four chip-select signals, tray
SAB-C161O-LM HA-Step	SP000011587	P-MQFP-80-1	as SAB-C161O-LM, tape & reel
SAF-C161O-LM HA-Step	SP000011622	P-MQFP-80-1	as SAB-C161O-LM, –40°C to 85°C, tray
SAF-C161O-LM HA-Step	SP000011623	P-MQFP-80-1	as SAF-C161O-LM, tape & reel
SAB-C161O-L25M HA-Step	SP000014268	P-MQFP-80-1	as SAB-C161O-LM, 25-MHz clock frequency, tape & reel
SAF-C161O-L25M HA-Step	SP000014269	P-MQFP-80-1	as SAB-C161O-L25M, –40°C to 85°C, tape & reel
SAB-C161O-LM3V HA-Step	SP000011588	P-MQFP-80-1	as SAB-C161O-LM, operating range 3 V, tape & reel
SAF-C161O-LM3V HA-Step	SP000011624	P-MQFP-80-1	as SAB-C161O-LM3V, –40°C to 85°C, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
SAB-C161PI-LF CA-Step	SP000014344	P-TQFP-100-1	ROMless, 3-Kbyte RAM, 8-bit ADC, real time clock, general purpose timer units, I ² C Bus, USART, watchdog timer, idle and power down mode, operating range 5 V, 10-bit ADC, 20-MHz clock frequency, tape & reel
SAF-C161PI-LF CA-Step	SP000014359	P-TQFP-100-1	as SAB-C161PI-LF, -40°C to 85°C, tape & reel
SAB-C161PI-LF3V CA-Step	SP000014360	P-TQFP-100-1	as SAB-C161PI-LF, operating range 3 V, tape & reel
SAF-C161PI-LF3V CA-Step	SP000014361	P-TQFP-100-1	as SAB-C161PI-LF 3 V, -40°C to 85°C, tape & reel
▼ SAB-C161PI-L25F CA-Step	SP000014362	P-TQFP-100-1	as SAB-C161PI-LF, 25-MHz clock frequency, tape & reel
▼ SAF-C161PI-L25F CA-Step	SP000014363	P-TQFP-100-1	as SAB-C161PI-L25F, -40°C to 85°C, tape & reel
SAB-C161PI-LM CA-Step	SP000014345	P-MQFP-100-2	as SAB-C161PI-LF, MQFP package, tape & reel
SAF-C161PI-LM CA-Step	SP000014364	P-MQFP-100-2	as SAB-C161PI-LM, -40°C to 85°C, tape & reel
SAB-C161PI-LM3V CA-Step	SP000014365	P-MQFP-100-2	as SAB-C161PI-LM, operating range 3 V, tape & reel
SAF-C161PI-LM3V CA-Step	SP000014366	P-MQFP-100-2	as SAB-C161PI-LM 3V, -40°C to 85°C, tape & reel
▼ SAB-C161PI-L25M CA-Step	SP000014367	P-MQFP-100-2	as SAB-C161PI-LM, 25-MHz clock frequency, tape & reel
SAF-C161PI-L25M CA-Step	SP000014368	P-MQFP-100-2	as SAB-C161PI-L25M, -40°C to 85°C, tape & reel
SAB-C161S-L25M AA-Step	SP000014739	P-MQFP-80-7	as SAB-C161PI-LM, low cost version, 25-MHz clock frequency, tape & reel
SAF-C161S-L25M AA-Step	SP000014947	P-MQFP-80-7	as SAB-C161S-L25M, -40°C to 85°C, tape & reel
SAB-C161S-LM3V AA-Step	SP000014946	P-MQFP-80-7	as SAB-C161PI-LM, low cost version, operating range 3 V, tape & reel
SAF-C161S-LM3V AA-Step	SP000014948	P-MQFP-80-7	as SAB-C161PI-LM, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC161CJ-16F20F BB-Step	SP000083663	P-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 12-channel 10-bit A/D converter, 20-MHz clock frequency, –40°C to 85°C, tape & reel
▼ SAF-XC161CJ-16F20F BB-Step	SP000231472	PG-TQFP-144-19	
▼ SAK-XC161CJ-16F20F BB-Step	SP000096148	P-TQFP-144-19	as SAF-XC161CJ-16F20F, –40°C to 125°C, tape & reel
▼ SAK-XC161CJ-16F20F BB-Step	SP000224538	PG-TQFP-144-19	
▼ SAF-XC161CJ-16F40F BB-Step	SP000096147	P-TQFP-144-19	as SAF-XC161CJ-16F20F, 40-MHz clock frequency, tape & reel
▼ SAF-XC161CJ-16F40F BB-Step	SP000224537	PG-TQFP-144-19	
▼ SAK-XC161CJ-16F40F BB-Step	SP000083664	P-TQFP-144-19	as SAF-XC161CJ-16F40F, –40°C to 125°C, tape & reel
▼ SAK-XC161CJ-16F40F BB-Step	SP000224540	PG-TQFP-144-19	
▼ SAF-XC161CS-32F20F BB-A-Step	SP000098772	P-TQFP-144-19	256-Kbyte on-chip program memory (flash memory), 12-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 20-MHz clock frequency, –40°C to 85°C, tape & reel
▼ SAF-XC161CS-32F20F BB-A-Step	SP000224541	PG-TQFP-144-19	
▼ SAK-XC161CS-32F20F BB-A-Step	SP000098774	P-TQFP-144-19	as SAF-XC161CS-32F20F, –40°C to 125°C, tape & reel
▼ SAK-XC161CS-32F20F BB-A-Step	SP000224543	PG-TQFP-144-19	
▼ SAF-XC161CS-32F40F BB-A-Step	SP000098773	P-TQFP-144-19	as SAF-XC161CS-32F20F, 40-MHz clock frequency, tape & reel
▼ SAF-XC161CS-32F40F BB-A-Step	SP000224542	PG-TQFP-144-19	
▼ SAK-XC161CS-32F40F BB-A-Step	SP000098775	P-TQFP-144-19	as SAF-XC161CS-32F40F, –40°C to 125°C, tape & reel
▼ SAK-XC161CS-32F40F BB-A-Step	SP000224544	PG-TQFP-144-19	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit			
(cont'd)			
▼ SAF-C164CI-LM CA+-Step	SP000017582	P-MQFP-80-7	ROMless, 4-Kbyte on-chip static RAM, 10-bit- ADC, real time clock, programmable watchdog timer, oscillator watchdog, idle and power down mode, full CAN-controller (V 2.0 B active), 20-MHz clock frequency, -40°C to 85°C, tape & reel
▼ SAF-C164CI-LM CA+-Step	SP000103495	PG-MQFP-80-7	
SAK-C164CI-LM CA+-Step	SP000017581	P-MQFP-80-7	as SAF-C164CI-LM, -40°C to 125°C, CA-Step, tape & reel
▼ SAK-C164CI-LM CA+-Step	SP000103497	PG-MQFP-80-7	
SAF-C164CI-L25M CA-Step	SP000014436	P-MQFP-80-7	as SAF-C164CI-LM, 25-MHz clock frequency, CA-Step, tape & reel
▼ SAK-C164CI-L25M CA+-Step	SP000059303	P-MQFP-80-7	as SAF-C164CI-L25M, -40°C to 125°C, CA+-Step, tape & reel
SAB-C164CI-LM3V CA+-Step	SP000014439	P-MQFP-80-7	as SAF-C164CI-LM, operating range 3 V, -0°C to 70°C, tape & reel
▼ SAF-C164CI-8EM CB-Step	SP000067718	P-MQFP-80-7	as SAF-C164CI-LM, 64-Kbyte OTP-memory, drive control unit, tray
▼ SAF-C164CI-8EM CB-Step	SP000103498	PG-MQFP-80-7	
▼ SAF-C164CI-8EM CB-Step	SP000067719	P-MQFP-80-7	as SAF-C164CI-8EM, tape & reel
▼ SAF-C164CI-8EM CB-Step	SP000103499	PG-MQFP-80-7	
▼ SAF-C164CI-8EM DB-Step	SP000057429	P-MQFP-80-7	as SAF-C164CI-8EM, DB-Step, tray
▼ SAF-C164CI-8EM DB-Step	SP000104055	PG-MQFP-80-7	
▼ SAF-C164CI-8EM DB-Step	SP000057430	P-MQFP-80-7	as SAF-C164CI-8EM, DB-Step, tape & reel
▼ SAF-C164CI-8EM DB-Step	SP000104056	PG-MQFP-80-7	
▼ SAK-C164CI-8EM CB-Step	SP000057420	P-MQFP-80-7	as SAF-C164CI-8M, -40°C to 125°C, tray
▼ SAK-C164CI-8EM CB-Step	SP000103500	PG-MQFP-80-7	
▼ SAK-C164CI-8EM CB-Step	SP000067720	P-MQFP-80-7	as SAK-C164CI-8EM, tape & reel
▼ SAK-C164CI-8EM CB-Step	SP000103501	PG-MQFP-80-7	
▼ SAK-C164CI-8EM DA-Step	SP000013602	P-MQFP-80-7	as SAK-C164CI-8EM, DA-Step, tape & reel
▼ SAK-C164CI-8EM DB-Step	SP000054995	P-MQFP-80-7	as SAK-C164CI-8EM, DB-Step, tray
▼ SAK-C164CI-8EM DB-Step	SP000104059	PG-MQFP-80-7	
▼ SAK-C164CI-8EM DB-Step	SP000057419	P-MQFP-80-7	as SAK-C164CI-8EM, tape & reel
▼ SAK-C164CI-8EM DB-Step	SP000104060	PG-MQFP-80-7	
▼ SAF-C164CI-8E25M DB-Step	SP000057427	P-MQFP-80-7	as SAF-C164CI-8EM, 25-MHz clock frequency, tray
▼ SAF-C164CI-8E25M DB-Step	SP000104053	PG-MQFP-80-7	
▼ SAF-C164CI-8E25M DB-Step	SP000057428	P-MQFP-80-7	as SAF-C164CI-8E25M, tape & reel
▼ SAF-C164CI-8E25M DB-Step	SP000104054	PG-MQFP-80-7	
▼ SAF-C164CI-8E28M DB-Step	SP000057421	P-MQFP-80-7	as SAF-C164CI-8EM, 28-MHz clock frequency, tape & reel
▼ SAK-C164CI-8E25M DB-Step	SP000057431	P-MQFP-80-7	as SAF-C164CI-8E25M, tray
▼ SAK-C164CI-8E25M DB-Step	SP000104057	PG-MQFP-80-7	
▼ SAK-C164CI-8E25M DB-Step	SP000057417	P-MQFP-80-7	as SAK-C164CI-8E25M, tape & reel
▼ SAK-C164CI-8E25M DB-Step	SP000104058	PG-MQFP-80-7	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAB-C164CL-8R25M CA+-Step	SP000084083	P-MQFP-80-7	as SAF-C164CI-LM, 16-Kbyte ROM, reduced CAPCOM functionality, 0°C to 70°C, 25-MHz clock frequency, tape & reel
▼ SAF-C164CM-4EF AB-Step	SP000068276	P-TQFP-64-4	32-Kbyte OTP memory, 2-Kbyte on-chip static RAM, 10-bit ADC, real time clock, programmable watchdog timer, oscillator watchdog, on-chip CAN-interface (V 2.0 B active), drive control unit, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-C164CM-4EF AB-Step	SP000104061	PG-TQFP-64-4	
▼ SAF-C164CM-4EF AB-Step	SP000068277	P-TQFP-64-4	as SAF-C164CM-EF, AB-Step, tape & reel
▼ SAF-C164CM-4EF AB-Step	SP000104062	PG-TQFP-64-4	
▼ SAK-C164CM-4EF AB-Step	SP000056829	P-TQFP-64-4	as SAF-C164CM-4EF, -40°C to 125°C, tape & reel
▼ SAK-C164CM-4EF AB-Step	SP000104063	PG-TQFP-64-4	
SAF-C164CM-4E25F	SP000065629	P-TQFP-64-4	as SAF-C164CM-4EF, 25-MHz clock frequency, tray

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164CM-4F20F AA-Step	SP000203862	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, TwinCAN module, one Full-CAN nodes, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164CM-4F20F AA-Step	SP000084408	PG-TQFP-64-4	as SAF-XC164CM-4F20F, tape & reel
▼ SAK-XC164CM-4F20F AA-Step	SP000203866	PG-TQFP-64-4	as SAF-XC164CM-4F20F, -40°C to 125°C, tray
▼ SAK-XC164CM-4F20F AA-Step	SP000084409	PG-TQFP-64-4	as SAK-XC164CM-4F20F, tape & reel
▼ SAF-XC164CM-4F40F AA-Step	SP000203863	PG-TQFP-64-4	as SAF-XC164CM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CM-4F40F AA-Step	SP000084410	PG-TQFP-64-4	as SAF-XC164CM-4F40F, tape & reel
▼ SAK-XC164CM-4F40F AA-Step	SP000203867	PG-TQFP-64-4	as SAF-XC164CM-4F40F, -40°C to 125°C, tray
▼ SAK-XC164CM-4F40F AA-Step	SP000084411	PG-TQFP-64-4	as SAK-XC164CM-4F40F, tape & reel
SAF-XC164CM-8F20F AA-Step	SP000203864	PG-TQFP-64-4	as SAF-XC164CM4F20F, 64-Kbyte on-chip program memory (flash memory), tray
SAF-XC164CM-8F20F AA-Step	SP000065633	PG-TQFP-64-4	as SAF-XC164CM8F20F, tape & reel
▼ SAK-XC164CM-8F20F AA-Step	SP000203868	PG-TQFP-64-4	as SAF-XC164CM-8F20F, -40°C to 125°C, tray
▼ SAK-XC164CM-8F20F AA-Step	SP000065643	PG-TQFP-64-4	as SAK-XC164CM-8F20F, tape & reel
SAF-XC164CM-8F40F AA-Step	SP000203865	PG-TQFP-64-4	as SAF-XC164CM-8F20F, 40-MHz clock frequency, tray
SAF-XC164CM-8F40F AA-Step	SP000065635	PG-TQFP-64-4	as SAF-XC164CM-8F40F, tape & reel
SAK-XC164CM-8F40F AA-Step	SP000203869	PG-TQFP-64-4	as SAF-XC164CM-8F40F, -40°C to 125°C, tray
SAK-XC164CM-8F40F AA-Step	SP000065644	PG-TQFP-64-4	as SAK-XC164CM-8F40F, tape & reel
▼ SAF-XC164CR-16F20F AA-Step	SP000205541	P-TQFP-64-4	as SAF-XC164CM-4F20F, without CAN interface, 128-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164CS-8F20F BB-Step	SP000094524	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, TwinCAN module, two Full-CAN nodes, 14-channel 10-bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164CS-8F20F BB-Step	SP000224555	PG-TQFP-100-16	
▼ SAF-XC164CS-8F20F BB-Step	SP000094523	P-TQFP-100-16	as SAF-XC164CS-8F20F, tape & reel
▼ SAF-XC164CS-8F20F BB-Step	SP000224554	PG-TQFP-100-16	
▼ SAK-XC164CS-8F20F BB-Step	SP000224563	PG-TQFP-100-16	as SAF-XC164CS-8F20F, -40°C to 125°C, tray
▼ SAK-XC164CS-8F20F BB-Step	SP000096145	P-TQFP-100-16	as SAK-XC164CS-8F20F, tape & reel
▼ SAK-XC164CS-8F20F BB-Step	SP000224562	PG-TQFP-100-16	
▼ SAF-XC164CS-8F40F BB-Step	SP000094526	P-TQFP-100-16	as SAF-XC164CS-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CS-8F40F BB-Step	SP000224557	PG-TQFP-100-16	
▼ SAF-XC164CS-8F40F BB-Step	SP000094525	P-TQFP-100-16	as SAF-XC164CS-8F40F, tape & reel
▼ SAF-XC164CS-8F40F BB-Step	SP000224556	PG-TQFP-100-16	
▼ SAK-XC164CS-8F40F BB-Step	SP000224565	PG-TQFP-100-16	as SAF-XC164CS-8F40F, -40°C to 125°C, tray
▼ SAK-XC164CS-8F40F BB-Step	SP000096146	P-TQFP-100-16	as SAK-XC164CS-8F40F, tape & reel
▼ SAK-XC164CS-8F40F BB-Step	SP000224564	PG-TQFP-100-16	
▼ SAF-XC164CS-16F20F BB-Step	SP000094305	P-TQFP-100-16	as SAF-XC164CS-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164CS-16F20F BB-Step	SP000224551	PG-TQFP-100-16	
▼ SAF-XC164CS-16F20F BB-Step	SP000092085	P-TQFP-100-16	as SAF-XC164CS-16F20F, tape & reel
▼ SAK-XC164CS-16F20F BB-Step	SP000224559	PG-TQFP-100-16	as SAF-XC164CS-16F20F, -40°C to 125°C, tray
▼ SAK-XC164CS-16F20F BB-Step	SP000094533	P-TQFP-100-16	as SAK-XC164CS-16F20F, tape & reel
▼ SAK-XC164CS-16F20F BB-Step	SP000224558	PG-TQFP-100-16	
▼ SAF-XC164CS-16F40F BB-Step	SP000094313	P-TQFP-100-16	as SAF-XC164CS-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CS-16F40F BB-Step	SP000224553	PG-TQFP-100-16	
▼ SAF-XC164CS-16F40F BB-Step	SP000094312	P-TQFP-100-16	as SAF-XC164CS-16F40F, tape & reel
▼ SAF-XC164CS-16F40F BB-Step	SP000224552	PG-TQFP-100-16	
▼ SAK-XC164CS-16F40F BB-Step	SP000224561	PG-TQFP-100-16	as SAF-XC164CS-16F40F, -40°C to 125°C, tray
▼ SAK-XC164CS-16F40F BB-Step	SP000083674	P-TQFP-100-16	as SAK-XC164CS-16F40F, tape & reel
▼ SAK-XC164CS-16F40F BB-Step	SP000224560	PG-TQFP-100-16	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164CS-32F20F BB-A-Step	SP000224591	PG-TQFP-100-16	as SAF-XC164CS-16F20F, 256-Kbyte on-chip program memory (flash memory), 12-Kbyte RAM, tray
▼ SAF-XC164CS-32F20F BB-A-Step	SP000098787	P-TQFP-100-16	as SAF-XC164CS-32F20F, tape & reel
▼ SAF-XC164CS-32F20F BB-A-Step	SP000224590	PG-TQFP-100-16	
▼ SAK-XC164CS-32F20F BB-A-Step	SP000224595	PG-TQFP-100-16	as SAF-XC164CS-32F20F, -40°C to 125°C, tray
▼ SAK-XC164CS-32F20F BB-A-Step	SP000098788	P-TQFP-100-16	as SAK-XC164CS-32F20F, tape & reel
▼ SAK-XC164CS-32F20F BB-A-Step	SP000222594	PG-TQFP-100-16	
▼ SAF-XC164CS-32F40F BB-A-Step	SP000224593	PG-TQFP-100-16	as SAF-XC164CS-32F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CS-32F40F BB-A-Step	SP000098670	P-TQFP-100-16	as SAF-XC164CS-32F40F, tape & reel
▼ SAF-XC164CS-32F40F BB-A-Step	SP000224592	PG-TQFP-100-16	
▼ SAK-XC164CS-32F40F BB-A-Step	SP000224597	PG-TQFP-100-16	as SAF-XC164CS-32F40F, -40°C to 125°C, tray
▼ SAK-XC164CS-32F40F BB-A-Step	SP000087332	P-TQFP-100-16	as SAK-XC164CS-32F40F, tape & reel
▼ SAK-XC164CS-32F40F BB-A-Step	SP000224596	PG-TQFP-100-16	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164D-8F20F BB-Step	SP000094511	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, TwinCAN module, two Full-CAN nodes, CAPCOM6E module, power saving modes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164D-8F20F BB-Step	SP000224581	PG-TQFP-100-16	
▼ SAF-XC164D-8F20F BB-Step	SP000094510	P-TQFP-100-16	as SAF-XC164D-8F20F, tape & reel
▼ SAF-XC164D-8F20F BB-Step	SP000224580	PG-TQFP-100-16	
▼ SAF-XC164D-8F40F BB-Step	SP000094513	P-TQFP-100-16	as SAF-XC164D-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164D-8F40F BB-Step	SP000224587	PG-TQFP-100-16	
▼ SAF-XC164D-8F40F BB-Step	SP000094512	P-TQFP-100-16	as SAF-XC164D-8F40F, tape & reel
▼ SAF-XC164D-8F40F BB-Step	SP000224586	PG-TQFP-100-16	
▼ SAF-XC164D-16F20F BB-Step	SP000094288	P-TQFP-100-16	as SAF-XC164D-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164D-16F20F BB-Step	SP000224569	PG-TQFP-100-16	
▼ SAF-XC164D-16F20F BB-Step	SP000094287	P-TQFP-100-16	as SAF-XC164D-16F20F, tape & reel
▼ SAF-XC164D-16F20F BB-Step	SP000224568	PG-TQFP-100-16	
▼ SAF-XC164D-16F40F BB-Step	SP000094300	P-TQFP-100-16	as SAF-XC164D-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC164D-16F40F BB-Step	SP000224573	PG-TQFP-100-16	
▼ SAF-XC164D-16F40F BB-Step	SP000094299	P-TQFP-100-16	as SAF-XC164D-16F40F, tape & reel
▼ SAF-XC164D-16F40F BB-Step	SP000224572	PG-TQFP-100-16	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164GM-4F20F AA-Step	SP000203871	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, TwinCAN module, one Full-CAN nodes, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164GM-4F20F AA-Step	SP000105862	PG-TQFP-64-4	as SAF-XC164GM-4F20F, tape & reel
▼ SAF-XC164GM-4F40F AA-Step	SP000203876	PG-TQFP-64-4	as SAF-XC164GM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164GM-4F40F AA-Step	SP000105867	PG-TQFP-64-4	as SAF-XC164GM-4F40F, tape & reel
▼ SAF-XC164GM-8F20F AA-Step	SP000203881	PG-TQFP-64-4	as SAF-XC164GM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164GM-8F20F AA-Step	SP000105744	PG-TQFP-64-4	as SAF-XC164GM-8F20F, tape & reel
▼ SAF-XC164GM-8F40F AA-Step	SP000203886	PG-TQFP-64-4	as SAF-XC164GM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164GM-8F40F AA-Step	SP000105876	PG-TQFP-64-4	as SAF-XC164GM-8F40F, tape & reel
▼ SAF-XC164KM-4F20F AA-Step	SP000203872	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, TwinCAN module, one Full-CAN nodes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164KM-4F20F AA-Step	SP000105863	PG-TQFP-64-4	as SAF-XC164KM-4F20F, tape & reel
▼ SAF-XC164KM-4F40F AA-Step	SP000203877	PG-TQFP-64-4	as SAF-XC164KM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164KM-4F40F AA-Step	SP000105868	PG-TQFP-64-4	as SAF-XC164KM-4F40F, tape & reel
▼ SAF-XC164KM-8F20F AA-Step	SP000203882	PG-TQFP-64-4	as SAF-XC164KM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164KM-8F20F AA-Step	SP000105872	PG-TQFP-64-4	as SAF-XC164KM-8F20F, tape & reel
▼ SAF-XC164KM-8F40F AA-Step	SP000203887	PG-TQFP-64-4	as SAF-XC164KM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164KM-8F40F AA-Step	SP000105877	PG-TQFP-64-4	as SAF-XC164KM-8F40F, tape & reel
▼ SAF-XC164LM-4F20F AA-Step	SP000203873	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164LM-4F20F AA-Step	SP000105864	PG-TQFP-64-4	as SAF-XC164LM-4F20F, tape & reel
▼ SAF-XC164LM-4F40F AA-Step	SP000203878	PG-TQFP-64-4	as SAF-XC164LM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164LM-4F40F AA-Step	SP000105869	PG-TQFP-64-4	as SAF-XC164LM-4F40F, tape & reel
▼ SAF-XC164LM-8F20F AA-Step	SP000203883	PG-TQFP-64-4	as SAF-XC164LM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164LM-8F20F AA-Step	SP000105873	PG-TQFP-64-4	as SAF-XC164LM-8F20F, tape & reel
▼ SAF-XC164LM-8F40F AA-Step	SP000203888	PG-TQFP-64-4	as SAF-XC164LM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164LM-8F40F AA-Step	SP000105878	PG-TQFP-64-4	as SAF-XC164LM-8F40F, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164N-8F20F BB-Step	SP000094515	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, two Full-CAN nodes, CAPCOM6E module, power saving modes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164N-8F20F BB-Step	SP000224583	PG-TQFP-100-16	
▼ SAF-XC164N-8F20F BB-Step	SP000094514	P-TQFP-100-16	as SAF-XC164N-8F20F, tape & reel
▼ SAF-XC164N-8F20F BB-Step	SP000224582	PG-TQFP-100-16	
▼ SAF-XC164N-8F40F BB-Step	SP000094518	P-TQFP-100-16	as SAF-XC164N-8F40F, 40-MHz clock frequency, tray
▼ SAF-XC164N-8F40F BB-Step	SP000224589	PG-TQFP-100-16	
▼ SAF-XC164N-8F40F BB-Step	SP000094517	P-TQFP-100-16	as SAF-XC164N-8F40F, tape & reel
▼ SAF-XC164N-8F40F BB-Step	SP000224588	PG-TQFP-100-16	
▼ SAF-XC164N-16F20F BB-Step	SP000094290	P-TQFP-100-16	as SAF-XC164N-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164N-16F20F BB-Step	SP000224571	PG-TQFP-100-16	
▼ SAF-XC164N-16F20F BB-Step	SP000094289	P-TQFP-100-16	as SAF-XC164N-16F20F, tape & reel
▼ SAF-XC164N-16F20F BB-Step	SP000224570	PG-TQFP-100-16	
▼ SAF-XC164N-16F40F BB-Step	SP000094302	P-TQFP-100-16	as SAF-XC164N-16F40F, 40-MHz clock frequency, tray
▼ SAF-XC164N-16F40F BB-Step	SP000224575	PG-TQFP-100-16	
▼ SAF-XC164N-16F40F BB-Step	SP000094301	P-TQFP-100-16	as SAF-XC164N-16F40F, tape & reel
▼ SAF-XC164N-16F40F BB-Step	SP000224574	PG-TQFP-100-16	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164S-8F20F BB-Step	SP000094520	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, 14-channel 10-bit A/D converter, two Full-CAN nodes, CAPCOM6E module, power saving modes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164S-8F20F BB-Step	SP000224579	PG-TQFP-100-16	
▼ SAF-XC164S-8F20F BB-Step	SP000094519	P-TQFP-100-16	as SAF-XC164S-8F20F, tape & reel
▼ SAF-XC164S-8F20F BB-Step	SP000224578	PG-TQFP-100-16	
▼ SAF-XC164S-8F40F BB-Step	SP000094522	P-TQFP-100-16	as SAF-XC164S-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164S-8F40F BB-Step	SP000224585	PG-TQFP-100-16	
▼ SAF-XC164S-8F40F BB-Step	SP000094521	P-TQFP-100-16	as SAF-XC164S-8F40F, tape & reel
▼ SAF-XC164S-8F40F BB-Step	SP000224584	PG-TQFP-100-16	
▼ SAF-XC164S-16F20F BB-Step	SP000094298	P-TQFP-100-16	as SAF-XC164S-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164S-16F20F BB-Step	SP000224567	PG-TQFP-100-16	
▼ SAF-XC164S-16F20F BB-Step	SP000094296	P-TQFP-100-16	as SAF-XC164S-16F20F, tape & reel
▼ SAF-XC164S-16F20F BB-Step	SP000224566	PG-TQFP-100-16	
▼ SAF-XC164S-16F40F BB-Step	SP000094304	P-TQFP-100-16	as SAF-XC164S-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC164S-16F40F BB-Step	SP000224577	PG-TQFP-100-16	
▼ SAF-XC164S-16F40F BB-Step	SP000094303	P-TQFP-100-16	as SAF-XC164S-16F40F, tape & reel
▼ SAF-XC164S-16F40F BB-Step	SP000224576	PG-TQFP-100-16	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC164SM-4F20F AA-Step	SP000203874	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164SM-4F20F AA-Step	SP000105865	PG-TQFP-64-4	as SAF-XC164SM-4F20F, tape & reel
▼ SAF-XC164SM-4F40F AA-Step	SP000203879	PG-TQFP-64-4	as SAF-XC164SM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164SM-4F40F AA-Step	SP000105870	PG-TQFP-64-4	as SAF-XC164SM-4F40F, tape & reel
▼ SAF-XC164SM-8F20F AA-Step	SP000203884	PG-TQFP-64-4	as SAF-XC164SM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164SM-8F20F AA-Step	SP000105874	PG-TQFP-64-4	as SAF-XC164SM-8F20F, tape & reel
▼ SAF-XC164SM-8F40F AA-Step	SP000203889	PG-TQFP-64-4	as SAF-XC164SM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164SM-8F40F AA-Step	SP000105879	PG-TQFP-64-4	as SAF-XC164SM-8F40F, tape & reel
▼ SAF-XC164TM-4F20F AA-Step	SP000203875	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164TM-4F20F AA-Step	SP000105866	PG-TQFP-64-4	as SAF-XC164TM-4F20F, tape & reel
▼ SAF-XC164TM-4F40F AA-Step	SP000203880	PG-TQFP-64-4	as SAF-XC164TM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164TM-4F40F AA-Step	SP000105871	PG-TQFP-64-4	as SAF-XC164TM-4F40F, tape & reel
▼ SAF-XC164TM-8F20F AA-Step	SP000203885	PG-TQFP-64-4	as SAF-XC164TM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164TM-8F20F AA-Step	SP000105875	PG-TQFP-64-4	as SAF-XC164TM-8F20F, tape & reel
▼ SAF-XC164TM-8F40F AA-Step	SP000203890	PG-TQFP-64-4	as SAF-XC164TM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164TM-8F40F AA-Step	SP000105880	PG-TQFP-64-4	as SAF-XC164TM-8F40F, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit			
(cont'd)			
SAB-C165-LF HA-Step	SP000011595	P-TQFP-100-1	as SAB-C165-LM, P-TQFP package, operating range 5 V, tray
SAB-C165-LF HA-Step	SP000011596	P-TQFP-100-1	as SAB-C165-LF, tape & reel
SAF-C165-LF HA-Step	SP000011631	P-TQFP-100-1	as SAB-C165-LF, -40°C to 85°C, tape & reel
SAB-C165-LF3V HA-Step	SP000011597	P-TQFP-100-1	as SAB-C165-LF, operating range 3 V, tape & reel
SAF-C165-LF3V HA-Step	SP000011632	P-TQFP-100-1	as SAB-C165-LF3V, -40°C to 85°C, tape & reel
SAB-C165-L25F HA-Step	SP000011591	P-TQFP-100-1	as SAB-C165-LF, 25-MHz clock frequency, tray
SAB-C165-L25F HA-Step	SP000011592	P-TQFP-100-1	as SAB-C165-LF, tape & reel
SAF-C165-L25F HA-Step	SP000012870	P-TQFP-100-1	as SAB-C165-L25F, -40°C to 85°C, tape & reel
SAB-C165-LM HA-Step	SP000011598	P-MQFP-100-2	ROMless, 2-Kbyte RAM, MCU-Core, compatible with SAB 80C166, additional 8 fast ext. interrupt inputs, 16-Mbyte address range, watchdog timer, 2 complex timer units, 2 serial interfaces, operating range 5 V, 20-MHz clock frequency, tray
SAB-C165-LM HA-Step	SP000011599	P-MQFP-100-2	as SAB-C165-LM, tape & reel
SAF-C165-LM HA-Step	SP000011633	P-MQFP-100-2	as SAB-C165-LM, -40°C to 85°C, tray
▼ SAF-C165-LM HA-Step	SP000011634	P-MQFP-100-2	as SAF-C165-LM, tape & reel
SAB-C165-LM3V HA-Step	SP000011600	P-MQFP-100-2	as SAB-C165-LM, operating range 3 V, tape & reel
SAF-C165-LM3V HA-Step	SP000011635	P-MQFP-100-2	as SAB-C165-LM3V, -40°C to 85°C, tape & reel
SAB-C165-L25M HA-Step	SP000011593	P-MQFP-100-2	as SAB-C165-LM, 25-MHz clock frequency, tray
SAB-C165-L25M HA-Step	SP000011594	P-MQFP-100-2	as SAB-C165-LM, tape & reel
SAF-C165-L25M HA-Step	SP000011629	P-MQFP-100-2	as SAB-C165-L25M, -40°C to 85°C, tray
SAF-C165-L25M HA-Step	SP000011630	P-MQFP-100-2	as SAB-C165-LM, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAB-C167CR-LM HA+-Step	SP000017976	P-MQFP-144-6	ROMless, 2 × 2-Kbyte RAM, MCU-Core, compatible with SAB 80C166, 10-bit A/D converter, PWM unit, additional 8 fast ext. interrupt inputs, 16-Mbyte address range, watchdog timer, 2 complex timer units, two capture/compare units (32 registers, 4 timers), additional I/O lines, 2 serial interfaces, with CAN, with PLL, 20-MHz clock frequency, tray
▼ SAB-C167CR-LM HA+-Step	SP000103462	PG-MQFP-144-6	as SAB-C167CR-LM, tray
▼ SAB-C167CR-LM HA+-Step	SP000017975	P-MQFP-144-6	as SAB-C167CR-LM, HA+-Step, tape & reel
▼ SAB-C167CR-LM HA+-Step	SP000103463	PG-MQFP-144-6	as SAB-C167CR-LM, tape & reel
▼ SAF-C167CR-LM HA+-Step	SP000016759	P-MQFP-144-6	as SAF-C167CR-LM, HA+-Step, tray
▼ SAF-C167CR-LM HA+-Step	SP000103464	PG-MQFP-144-6	as SAF-C167CR-LM, tray
SAF-C167CR-LM HA+-Step	SP000017995	P-MQFP-144-6	as SAF-C167CR-LM, HA+-Step, tape & reel
▼ SAF-C167CR-LM HA+-Step	SP000103465	PG-MQFP-144-6	as SAF-C167CR-LM, tape & reel
▼ SAK-C167CR-LM HA+-Step	SP000016753	P-MQFP-144-6	as SAK-C167CR-LM, HA+-Step, tray
▼ SAK-C167CR-LM HA+-Step	SP000103466	PG-MQFP-144-6	
▼ SAK-C167CR-LM HA+-Step	SP000016521	P-MQFP-144-6	as SAK-C167CR-LM, HA+-Step, tape & reel
▼ SAK-C167CR-LM HA+-Step	SP000103467	PG-MQFP-144-6	
▼ SAK-C167CR-L33M HA+-Step	SP000017997	P-MQFP-144-6	as SAK-C167CR-L33M, HA+-Step, tray
▼ SAK-C167CR-L33M HA+-Step	SP000103460	PG-MQFP-144-6	
▼ SAK-C167CR-L33M HA+-Step	SP000017993	P-MQFP-144-6	as SAK-C167CR-L33M, HA+-Step, tape & reel
▼ SAK-C167CR-L33M HA+-Step	SP000103461	PG-MQFP-144-6	
▼ SAB-C167CR-16RM HA+-Step	SP000083849	P-MQFP-144-6	as SAB-C167CR-LM, 128-Kbyte ROM, tape & reel
▼ SAK-C167CR-16RM HA+-Step	SP000065652	P-MQFP-144-6	as SAB-C167CR-16RM, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit			
(cont'd)			
SAB-C167CS-LM CA+-Step	SP000067513	P-MQFP-144-6	as SAB-C167CR-LM, two on-chip CAN-interfaces, tray
▼ SAB-C167CS-LM CA+-Step	SP000103483	PG-MQFP-144-6	
SAB-C167CS-LM CA+-Step	SP000017996	P-MQFP-144-6	as SAB-C167CS-LM, tape & reel
▼ SAB-C167CS-LM CA+-Step	SP000103488	PG-MQFP-144-6	
▼ SAB-C167CS-LM CA+-Step	SP000103484	PG-MQFP-144-6	as SAB-C167CS-LM, tape & reel
SAF-C167CS-LM CA+-Step	SP000018000	P-MQFP-144-6	as SAB-C167CS-LM, -40°C to 85°C, tray
▼ SAF-C167CS-LM CA+-Step	SP000103487	PG-MQFP-144-6	
SAF-C167CS-LM CA+-Step	SP000017992	P-MQFP-144-6	as SAF-C167CS-LM, tape & reel
SAK-C167CS-LM CA+-Step	SP000016750	P-MQFP-144-6	as SAB-C167CS-LM, -40°C to 125°C, tray
▼ SAK-C167CS-LM CA+-Step	SP000103492	PG-MQFP-144-6	
SAK-C167CS-LM CA+-Step	SP000016504	P-MQFP-144-6	as SAK-C167CS-LM, tape & reel
▼ SAK-C167CS-LM CA+-Step	SP000103493	PG-MQFP-144-6	
▼ SAF-C167CS-L16M3V CA+-Step	SP000103469	PG-MQFP-144-6	as SAB-C167CS-LM, 16-MHz clock frequency, operating range 3 V, tray
SAF-C167CS-L16M3V CA+-Step	SP000017109	P-MQFP-144-6	as SAF-C167CS-L16M3V, tape & reel
▼ SAF-C167CS-L16M3V CA+-Step	SP000103470	PG-MQFP-144-6	
▼ SAF-C167CS-L33M CA+-Step	SP000016732	P-MQFP-144-6	as SAB-C167CS-LM, 33-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-C167CS-L33M CA+-Step	SP000103485	PG-MQFP-144-6	
▼ SAF-C167CS-L33M CA-Step	SP000016731	P-MQFP-144-6	as SAF-C167CS-L33M, tape & reel
▼ SAF-C167CS-L33M CA+-Step	SP000103486	PG-MQFP-144-6	
▼ SAK-C167CS-L33M CA+-Step	SP000017988	P-MQFP-144-6	as SAF-C167CS-L33M, -40°C to 125°C, tape & reel
▼ SAK-C167CS-L33M CA+-Step	SP000103489	PG-MQFP-144-6	
▼ SAB-C167CS-L40M CA+-Step	SP000017984	P-MQFP-144-6	as SAB-C167CS-LM, 40-MHz clock frequency, tray
▼ SAB-C167CS-L40M CA+-Step	SP000103471	PG-MQFP-144-6	
▼ SAB-C167CS-L40M CA+-Step	SP000103468	PG-MQFP-144-6	as SAB-C167CS-LM, 40-MHz clock frequency, tape & reel
SAK167CS-L40M CA+-Step	SP000016752	P-MQFP-144-6	as SAB-C167CS-L40M, -40°C to 125°C, tray
▼ SAK167CS-L40M CA+-Step	SP000103490	PG-MQFP-144-6	
SAK-C167CS-L40M CA+-Step	SP000016751	P-MQFP-144-6	as SAK-C167CS-L40M, tape & reel
▼ SAK-C167CS-L40M CA+-Step	SP000103491	PG-MQFP-144-6	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
SAB-C167SR-LM HA+-Step	SP000017980	P-MQFP-144-6	as SAB-C167CR-LM, without CAN interface, tray
▼ SAB-C167SR-LM HA+-Step	SP000103456	PG-MQFP-144-6	
SAB-C167SR-LM HA+-Step	SP000017982	P-MQFP-144-6	as SAB-C167SR-LM, tape & reel
▼ SAB-C167SR-LM HA+-Step	SP000103457	PG-MQFP-144-6	
SAK-C167SR-LM HA+-Step	SP000017999	P-MQFP-144-6	as SAB-C167SR-LM, -40°C to 125°C, tray
▼ SAK-C167SR-LM HA+-Step	SP000103458	PG-MQFP-144-6	
SAK-C167SR-LM HA+-Step	SP000016522	P-MQFP-144-6	as SAK-C167SR-LM, tape & reel
▼ SAK-C167SR-LM HA+-Step	SP000103459	PG-MQFP-144-6	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 16-bit (cont'd)			
▼ SAF-XC167CI-16F20F BB-Step	SP000094528	P-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, 16-channel 10-bit A/D converter, TwinCAN module, two Full-CAN nodes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC167CI-16F20F BB-Step	SP000224688	PG-TQFP-144-19	
▼ SAF-XC167CI-16F20F BB-Step	SP000094527	P-TQFP-144-19	as SAF-XC167CI-8F20F, tape & reel
▼ SAF-XC167CI-16F20F BB-Step	SP000224687	PG-TQFP-144-19	
▼ SAK-XC167CI-16F20F BB-Step	SP000224692	PG-TQFP-144-19	as SAF-XC167CI-16F-20F, -40°C to 125°C, tray
▼ SAK-XC167CI-16F20F BB-Step	SP000094531	P-TQFP-144-19	as SAK-XC167CI-16F-20F, tape & reel
▼ SAK-XC167CI-16F20F BB-Step	SP000224691	PG-TQFP-144-19	
▼ SAF-XC167CI-16F40F BB-Step	SP000094530	P-TQFP-144-19	as SAF-XC167CI-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC167CI-16F40F BB-Step	SP000224690	PG-TQFP-144-19	
▼ SAF-XC167CI-16F40F BB-Step	SP000094529	P-TQFP-144-19	as SAF-XC167CI-16F40F, tape & reel
▼ SAF-XC167CI-16F40F BB-Step	SP000224689	PG-TQFP-144-19	
▼ SAK-XC167CI-16F40F BB-Step	SP000095456	P-TQFP-144-19	as SAF-XC167CI-16F40F, -40°C to 125°C, tray
▼ SAK-XC167CI-16F40F BB-Step	SP000224695	PG-TQFP-144-19	
▼ SAK-XC167CI-16F40F BB-Step	SP000095455	P-TQFP-144-19	as SAK-XC167CI-16F40F, tape & reel
▼ SAK-XC167CI-16F40F BB-Step	SP000224694	PG-TQFP-144-19	
▼ SAF-XC167CI-32F20F BB-A-Step	SP000224701	PG-TQFP-144-19	as SAF-XC167CI-16F20F, 256-Kbytes on-chip program memory (flash memory), 12-Kbyte RAM, tray
▼ SAF-XC167CI-32F20F BB-A-Step	SP000098776	P-TQFP-144-19	as SAF-XC167CI-32F20F, tape & reel
▼ SAF-XC167CI-32F20F BB-A-Step	SP000224700	PG-TQFP-144-19	
▼ SAK-XC167CI-32F20F BB-A-Step	SP000224705	PG-TQFP-144-19	as SAF-XC167CI-32F20F, -40°C to 125°C, tray
▼ SAK-XC167CI-32F20F BB-A-Step	SP000098777	P-TQFP-144-19	as SAK-XC167CI-32F20F, tape & reel
▼ SAK-XC167CI-32F20F BB-A-Step	SP000224704	PG-TQFP-144-19	
▼ SAF-XC167CI-32F40F BB-A-Step	SP000224703	PG-TQFP-144-19	as SAF-XC167CI-32F20F, 40-MHz clock frequency, tray
▼ SAF-XC167CI-32F40F BB-A-Step	SP000104964	P-TQFP-144-19	as SAF-XC167CI-32F40F, tape & reel
▼ SAF-XC167CI-32F40F BB-A-Step	SP000224702	PG-TQFP-144-19	
▼ SAK-XC167CI-32F40F BB-A-Step	SP000224707	PG-TQFP-144-19	as SAF-XC167CI-32F40F, -40°C to 125°C, tray
▼ SAK-XC167CI-32F40F BB-A-Step	SP000098778	P-TQFP-144-19	as SAK-XC167CI-32F40F, tape & reel
▼ SAK-XC167CI-32F40F BB-A-Step	SP000224706	PG-TQFP-144-19	

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 8-bit			
▼ SAF-C505CA-LM CA-Step	SP000106636	P-MQFP-44-2	ROMless, 256-byte on-chip RAM, 1-Kbyte XRAM, oscillator watchdog, watchdog timer, full CAN-controller (V 2.0 B active), 10-bit ADC, three 16-bit timers/counters, 20-MHz clock frequency, tray
▼ SAF-C505CA-LM CA-Step	SP000106669	PG-MQFP-44-2	
▼ SAF-C505CA-LM CA-Step	SP000014488	P-MQFP-44-2	as SAF-C505CA-LM, tape & reel
▼ SAF-C505CA-LM CA-Step	SP000106390	PG-MQFP-44-2	
▼ SAB-C505CA-4EM CA-Step	SP000068757	P-MQFP-44-2	as SAF-C505CA-LM, 32-Kbyte OTP memory, 0°C to 70°C, tray
▼ SAB-C505CA-4EM CA-Step	SP000106391	PG-MQFP-44-2	
▼ SAB-C505CA-4EM CA-Step	SP000068755	P-MQFP-44-2	as SAB-C505CA-4EM, tape & reel
▼ SAB-C505CA-4EM CA-Step	SP000106392	PG-MQFP-44-2	
▼ SAF-C505CA-4EM CA-Step	SP000068758	P-MQFP-44-2	as SAB-C505CA-4 EM, -40°C to 85°C, tray
▼ SAF-C505CA-4EM CA-Step	SP000106394	PG-MQFP-44-2	
▼ SAF-C505CA-4EM CA-Step	SP000068759	P-MQFP-44-2	as SAF-C505CA-4EM, tape & reel
▼ SAF-C505CA-4EM CA-Step	SP000106395	PG-MQFP-44-2	
▼ SAK-C505CA-4EM CA-Step	SP000068754	P-MQFP-44-2	as SAF-C505CA-4EM, -40°C to 125°C, tray
▼ SAK-C505CA-4EM CA-Step	SP000106396	PG-MQFP-44-2	
▼ SAK-C505CA-4EM CA-Step	SP000067377	P-MQFP-44-2	as SAK-C505CA-4EM, tape & reel
▼ SAK-C505CA-4EM CA-Step	SP000107542	PG-MQFP-44-2	
▼ SAF-C505CA-4RM CA-Step	SP000065658	P-MQFP-44-2	as SAB-C505CA-4EM, with 32-Kbyte maskprogrammable ROM, tray
SAF-C505CA-4RM CA-Step	SP000084302	P-MQFP-44-2	as SAF-C505CA-4RM, tape & reel
▼ SAK-C505CA-4RM CA-Step	SP000084304	P-MQFP-44-2	as SAF-C505CA-4RM, -40°C to 125°C, tape & reel
▼ SAF-C515C-8EM CA-Step	SP000068750	P-MQFP-80-1	64-Kbyte OTP memory, 256 x 8-bit RAM, additional 2K x 8-bit on-chip RAM, three 16-bit timer/counters, power saving modes, 10-bit A/D converter, programmable watchdog timer, oscillator watchdog, 10-MHz CPU clock frequency, for external memory, full CAN-controller (V 2.0 B active); -40°C to 85°C, tray
▼ SAF-C515C-8EM CA-Step	SP000106398	PG-MQFP-80-1	
▼ SAF-C515C-8EM CA-Step	SP000067378	P-MQFP-80-1	as SAF-C515C-8EM, tape & reel
▼ SAF-C515C-8EM CA-Step	SP000106400	PG-MQFP-80-1	
SAF-C868-1SG BA-Step	SP000013636	P-DSO-28-1	8-Kbyte on-chip program SRAM, 256-byte RAM, 256-byte XRAM, three 16-bit timers/counters, PWM unit (CAPCOM6E), 8-bit ADC, oscillator watchdog, watchdog timer, 40-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-C868-1SG BA-Step	SP000014356	P-DSO-28-1	as SAF-C868-1SG, -40°C to 125°C, tape & reel
▼ SAF-C868-1SR BA-Step	SP000013637	PG-TSSOP-38-1	as SAF-C868-1SG, P-TSSOP package, tape & reel
SAK-C868-1SR BA-Step	SP000014357	PG-TSSOP-38-1	as SAF-C868-1SR, -40°C to 125°C, tape & reel
SAF-C868P-1SR BA-Step	SP000013638	PG-TSSOP-38-1	as SAF-C868-1SR, with Code Protection, tape & reel
SAK-C868P-1SR BA-Step	SP000014358	PG-TSSOP-38-1	as SAF-C868P-1SR, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 8-bit (cont'd)			
▼ SAF-XC866-2FRI (industry) BC-Step	SP000210683	PG-TSSOP-38-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 8-Kbyte flash (4-Kbyte program flash, 4-Kbyte data flash), automotive quality level, 256-byte RAM, 512-byte XRAM, capture compare unit, three 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, -40°C to 85°C, tape & reel
SAF-XC866-4FRI (industry) BC-Step	SP000057470	PG-TSSOP-38-1	as SAF-XC866-2FRA, 16-Kbyte flash (12-Kbyte program flash, 4-Kbyte data flash), industry quality level, tape & reel
▼ SAK-XC866-4FRI (industry) BC-Step	SP000210680	PG-TSSOP-38-1	as SAF-XC866-4FRI, -40°C to 125°C, tape & reel
▼ SAF-XC886-6FFA (automotive)	SP000210975	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC886-6FFA (automotive)	SP000210978	PG-TQFP-48-4	as SAF-XC886-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886-6FFI (industry)	SP000216467	PG-TQFP-48-4	as SAF-XC886-6FFA, industry quality level, tape & reel
▼ SAF-XC886-6FFI (industry) AB-Step	SP000217345	PG-TQFP-48-4	as SAF-XC886-6FFI, AB-step, tape & reel
▼ SAF-XC886-8FFA (automotive)	SP000210968	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC886-8FFA (automotive)	SP000210971	PG-TQFP-48-4	as SAF-XC886-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886-8FFI (industry)	SP000216470	PG-TQFP-48-4	as SAF-XC886-8FFA, industry quality level, tape & reel
▼ SAF-XC886-8FFI (industry) AB-Step	SP000217349	PG-TQFP-48-4	as SAF-XC886-8FFI, AB-step, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 8-bit (cont'd)			
▼ SAF-XC886C-8FFA (automotive)	SP000210961	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC886C-8FFA (automotive)	SP000106749	PG-TQFP-48-4	as SAF-XC886C-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886C-8FFI (industry)	SP000216464	PG-TQFP-48-4	as SAF-XC886C-8FFA, industry quality level, tape & reel
▼ SAF-XC886C-8FFI (industry) AB-Step	SP000217340	PG-TQFP-48-4	as SAF-XC886C-8FFI, AB-step, tape & reel
▼ SAF-XC886CLM-8FFA (automotive)	SP000106748	PG-TQFP-48-4	as SAF-XC886C-8FFA, with LIN BSL support, MDU module, tape & reel
▼ SAK-XC886CLM-8FFA (automotive)	SP000210964	PG-TQFP-48-4	as SAF-XC886CLM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886CLM-8FFI (industry)	SP000216465	PG-TQFP-48-4	as SAF-XC886CLM-8FFA, industry quality level, tape & reel
▼ SAF-XC886CLM-8FFI (industry) AB-Step	SP000217341	PG-TQFP-48-4	as SAF-XC886CLM-8FFI, AB-step, tape & reel
▼ SAF-XC886CM-8FFA (automotive)	SP000210962	PG-TQFP-48-4	as SAF-XC886C-8FFA, with MDU, tape & reel
▼ SAK-XC886CM-8FFA (automotive)	SP000210965	PG-TQFP-48-4	as SAF-XC886CM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886CM-8FFI (industry)	SP000216466	PG-TQFP-48-4	as SAF-XC886CM-8FFA, industry quality level, tape & reel
▼ SAF-XC886CM-8FFI (industry) AB-Step	SP000217342	PG-TQFP-48-4	as SAF-XC886CM-8FFI, AB-step, tape & reel
▼ SAF-XC886LM-6FFA (automotive)	SP000210974	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, MDU module, -40°C to 85°C, tape & reel
▼ SAK-XC886LM-6FFA (automotive)	SP000210977	PG-TQFP-48-4	as SAF-XC886LM-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886LM-6FFI (industry)	SP000216468	PG-TQFP-48-4	as SAF-XC886LM-6FFA, industry quality level, tape & reel
▼ SAF-XC886LM-6FFI (industry) AB-Step	SP000217347	PG-TQFP-48-4	as SAF-XC886LM-6FFI, AB-step, tape & reel
▼ SAF-XC886LM-8FFA (automotive)	SP000210967	PG-TQFP-48-4	as SAF-XC886LM-6FFA, 32-Kbyte flash memory, tape & reel
▼ SAK-XC886LM-8FFA (automotive)	SP000210970	PG-TQFP-48-4	as SAF-XC886LM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886LM-8FFI (industry)	SP000216471	PG-TQFP-48-4	as SAF-XC886LM-8FFA, industry quality level, tape & reel
▼ SAF-XC886LM-8FFI (industry) AB-Step	SP000217348	PG-TQFP-48-4	as SAF-XC886LM-8FFI, AB-step, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Package	Description
Microcontrollers, 8-bit (cont'd)			
▼ SAF-XC888-6FFA (automotive)	SP000210989	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC888-6FFA (automotive)	SP000210995	PG-TQFP-64-8	as SAF-XC888-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888-6FFI (industry)	SP000216477	PG-TQFP-64-8	as SAF-XC888-6FFA, industry quality level, tape & reel
▼ SAF-XC888-8FFA (automotive)	SP000210986	PG-TQFP-64-8	as SAF-XC888-6FFA, 32-Kbyte flash memory, tape & reel
▼ SAK-XC888-8FFA (automotive)	SP000210992	PG-TQFP-64-8	as SAF-XC888-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888-8FFI (industry)	SP000216479	PG-TQFP-64-8	as SAF-XC888-8FFA, industry quality level, tape & reel
▼ SAF-XC888C-8FFA (automotive)	SP000210980	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC888C-8FFA (automotive)	SP000098771	PG-TQFP-64-8	as SAF-XC888C-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888C-8FFI (industry)	SP000216474	PG-TQFP-64-8	as SAF-XC888C-8FFA, industry quality level, tape & reel
▼ SAF-XC888CLM-8FFA (automotive)	SP000210979	PG-TQFP-64-8	as SAF-XC888C-8FFA, with LIN BSL support, MDU module, tape & reel
▼ SAK-XC888CLM-8FFA (automotive)	SP000210982	PG-TQFP-64-8	as SAF-XC888CLM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888CLM-8FFI (industry)	SP000216475	PG-TQFP-64-8	as SAF-XC888CLM-8FFA, industry quality level, tape & reel
▼ SAF-XC888CM-8FFA (automotive)	SP000210981	PG-TQFP-64-8	as SAF-XC888C-8FFA, with MDU, tape & reel
▼ SAK-XC888CM-8FFA (automotive)	SP000210983	PG-TQFP-64-8	as SAF-XC888CM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888CM-8FFI (industry)	SP000216476	PG-TQFP-64-8	as SAF-XC888CM-8FFA, industry quality level, tape & reel
▼ SAF-XC888LM-6FFA (automotive)	SP000210988	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, MDU module, -40°C to 85°C, tape & reel
▼ SAK-XC888LM-6FFA (automotive)	SP000210994	PG-TQFP-64-8	as SAF-XC888LM-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888LM-6FFI (industry)	SP000216478	PG-TQFP-64-8	as SAF-XC888LM-6FFA, industry quality level, tape & reel
▼ SAF-XC888LM-8FFA (automotive)	SP000210985	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, MDU module, -40°C to 85°C, tape & reel
▼ SAK-XC888LM-8FFA (automotive)	SP000210991	PG-TQFP-64-8	as SAF-XC888LM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888LM-8FFI (industry)	SP000216480	PG-TQFP-64-8	as SAF-XC888LM-8FFA, industry quality level, tape & reel

SMD = Surface Mounted Device

Summary of Types

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SAB-C161CS-LF CA-Step	SP000053817	8	SAF-C161CS-LF CA-Step	SP000016999	8
SAB-C161CS-LF CA-Step	SP000106860	8	SAF-C161JI-LF CA-Step	SP000057564	8
SAB-C161CS-LF CA-Step	SP000016425	8	SAF-C161K-LM HA-Step	SP000011620	8
SAB-C161CS-LF CA-Step	SP000106861	8	SAF-C161K-LM3V HA-Step	SP000011621	8
SAB-C161JC-LF CA-Step	SP000057562	8	SAF-C161O-L25M HA-Step	SP000014269	8
SAB-C161JC-LF CA-Step	SP000057563	8	SAF-C161O-LM HA-Step	SP000011622	8
SAB-C161JI-LF CA-Step	SP000057588	8	SAF-C161O-LM HA-Step	SP000011623	8
SAB-C161K-LM HA-Step	SP000011584	8	SAF-C161O-LM3V HA-Step	SP000011624	8
SAB-C161K-LM HA-Step	SP000011585	8	SAF-C161PI-L25F CA-Step	SP000014363	9
SAB-C161O-L25M HA-Step	SP000014268	8	SAF-C161PI-L25M CA-Step	SP000014368	9
SAB-C161O-LM HA-Step	SP000011586	8	SAF-C161PI-LF CA-Step	SP000014359	9
SAB-C161O-LM HA-Step	SP000011587	8	SAF-C161PI-LF3V CA-Step	SP000014361	9
SAB-C161O-LM3V HA-Step	SP000011588	8	SAF-C161PI-LM CA-Step	SP000014364	9
SAB-C161PI-L25F CA-Step	SP000014362	9	SAF-C161PI-LM3V CA-Step	SP000014366	9
SAB-C161PI-L25M CA-Step	SP000014367	9	SAF-C161S-L25M AA-Step	SP000014947	9
SAB-C161PI-LF CA-Step	SP000014344	9	SAF-C161S-LM3V AA-Step	SP000014948	9
SAB-C161PI-LF3V CA-Step	SP000014360	9	SAF-C164CI-8E25M DB-Step	SP000057427	11
SAB-C161PI-LM CA-Step	SP000014345	9	SAF-C164CI-8E25M DB-Step	SP000104053	11
SAB-C161PI-LM3V CA-Step	SP000014365	9	SAF-C164CI-8E25M DB-Step	SP000057428	11
SAB-C161S-L25M AA-Step	SP000014739	9	SAF-C164CI-8E25M DB-Step	SP000104054	11
SAB-C161S-LM3V AA-Step	SP000014946	9	SAF-C164CI-8E28M DB-Step	SP000057421	11
SAB-C164CI-LM3V CA+-Step	SP000014439	11	SAF-C164CI-8EM CB-Step	SP000067718	11
SAB-C164CL-8R25M CA+-Step	SP000084083	12	SAF-C164CI-8EM CB-Step	SP000103498	11
SAB-C165-L25F HA-Step	SP000011591	21	SAF-C164CI-8EM CB-Step	SP000067719	11
SAB-C165-L25F HA-Step	SP000011592	21	SAF-C164CI-8EM CB-Step	SP000103499	11
SAB-C165-L25M HA-Step	SP000011593	21	SAF-C164CI-8EM DB-Step	SP000057429	11
SAB-C165-L25M HA-Step	SP000011594	21	SAF-C164CI-8EM DB-Step	SP000104055	11
SAB-C165-LF HA-Step	SP000011595	21	SAF-C164CI-8EM DB-Step	SP000057430	11
SAB-C165-LF HA-Step	SP000011596	21	SAF-C164CI-8EM DB-Step	SP000104056	11
SAB-C165-LF3V HA-Step	SP000011597	21	SAF-C164CI-L25M CA-Step	SP000014436	11
SAB-C165-LM HA-Step	SP000011598	21	SAF-C164CI-LM CA+-Step	SP000017582	11
SAB-C165-LM HA-Step	SP000011599	21	SAF-C164CI-LM CA+-Step	SP000103495	11
SAB-C165-LM3V HA-Step	SP000011600	21	SAF-C164CM-4E25F	SP000065629	12
SAB-C167CR-16RM HA+-Step	SP000083849	22	SAF-C164CM-4EF AB-Step	SP000068276	12
SAB-C167CR-LM HA+-Step	SP000017976	22	SAF-C164CM-4EF AB-Step	SP000104061	12
SAB-C167CR-LM HA+-Step	SP000103462	22	SAF-C164CM-4EF AB-Step	SP000068277	12
SAB-C167CR-LM HA+-Step	SP000017975	22	SAF-C164CM-4EF AB-Step	SP000104062	12
SAB-C167CR-LM HA+-Step	SP000103463	22	SAF-C165-L25F HA-Step	SP000012870	21
SAB-C167CS-L40M CA+-Step	SP000017984	23	SAF-C165-L25M HA-Step	SP000011629	21
SAB-C167CS-L40M CA+-Step	SP000103471	23	SAF-C165-L25M HA-Step	SP000011630	21
SAB-C167CS-L40M CA+-Step	SP000103468	23	SAF-C165-LF HA-Step	SP000011631	21
SAB-C167CS-LM CA+-Step	SP000067513	23	SAF-C165-LF3V HA-Step	SP000011632	21
SAB-C167CS-LM CA+-Step	SP000103483	23	SAF-C165-LM HA-Step	SP000011633	21
SAB-C167CS-LM CA+-Step	SP000017996	23	SAF-C165-LM HA-Step	SP000011634	21
SAB-C167CS-LM CA+-Step	SP000103488	23	SAF-C165-LM3V HA-Step	SP000011635	21
SAB-C167CS-LM CA+-Step	SP000103484	23	SAF-C167CR-LM HA+-Step	SP000016759	22
SAB-C167SR-LM HA+-Step	SP000017980	24	SAF-C167CR-LM HA+-Step	SP000103464	22
SAB-C167SR-LM HA+-Step	SP000103456	24	SAF-C167CR-LM HA+-Step	SP000017995	22
SAB-C167SR-LM HA+-Step	SP000017982	24	SAF-C167CR-LM HA+-Step	SP000103465	22
SAB-C167SR-LM HA+-Step	SP000103457	24	SAF-C167CS-L16M3V CA+-Step	SP000103469	23
SAB-C505CA-4EM CA-Step	SP000068757	26	SAF-C167CS-L16M3V CA+-Step	SP000017109	23
SAB-C505CA-4EM CA-Step	SP000106391	26	SAF-C167CS-L16M3V CA+-Step	SP000103470	23
SAB-C505CA-4EM CA-Step	SP000068755	26	SAF-C167CS-L33M CA+-Step	SP000016732	23
SAB-C505CA-4EM CA-Step	SP000106392	26	SAF-C167CS-L33M CA+-Step	SP000103485	23
SAF-C161CS-LF	SP000106865	8	SAF-C167CS-L33M CA+-Step	SP000103486	23
SAF-C161CS-LF	SP000014380	8	SAF-C167CS-L33M CA-Step	SP000016731	23
			SAF-C167CS-LM CA+-Step	SP000018000	23

Summary of Types

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SAF-C167CS-LM CA+-Step	SP000017992	23	SAF-XC161CS-32F40F BB-A-Step	SP000224542	10
SAF-C505CA-4EM CA-Step	SP000068758	26	SAF-XC164CM-4F20F AA-Step	SP000203862	13
SAF-C505CA-4EM CA-Step	SP000106394	26	SAF-XC164CM-4F20F AA-Step	SP000084408	13
SAF-C505CA-4EM CA-Step	SP000068759	26	SAF-XC164CM-4F40F AA-Step	SP000203863	13
SAF-C505CA-4EM CA-Step	SP000106395	26	SAF-XC164CM-4F40F AA-Step	SP000084410	13
SAF-C505CA-4RM CA-Step	SP000065658	26	SAF-XC164CM-8F20F AA-Step	SP000203864	13
SAF-C505CA-4RM CA-Step	SP000084302	26	SAF-XC164CM-8F20F AA-Step	SP000065633	13
SAF-C505CA-LM CA-Step	SP000106636	26	SAF-XC164CM-8F40F AA-Step	SP000203865	13
SAF-C505CA-LM CA-Step	SP000106669	26	SAF-XC164CM-8F40F AA-Step	SP000065635	13
SAF-C505CA-LM CA-Step	SP000014488	26	SAF-XC164CR-16F20F AA-Step	SP000205541	13
SAF-C505CA-LM CA-Step	SP000106390	26	SAF-XC164CS-16F20F BB-Step	SP000094305	14
SAF-C515C-8EM CA-Step	SP000068750	26	SAF-XC164CS-16F20F BB-Step	SP000224551	14
SAF-C515C-8EM CA-Step	SP000106398	26	SAF-XC164CS-16F20F BB-Step	SP000092085	14
SAF-C515C-8EM CA-Step	SP000067378	26	SAF-XC164CS-16F40F BB-Step	SP000094313	14
SAF-C515C-8EM CA-Step	SP000106400	26	SAF-XC164CS-16F40F BB-Step	SP000224553	14
SAF-C868-1SG BA-Step	SP000013636	26	SAF-XC164CS-16F40F BB-Step	SP000094312	14
SAF-C868-1SR BA-Step	SP000013637	26	SAF-XC164CS-16F40F BB-Step	SP000224552	14
SAF-C868P-1SR BA-Step	SP000013638	26	SAF-XC164CS-32F20F BB-A-Step	SP000224591	15
SAF-TC1100-L100EB BB-Step	SP000099818	6	SAF-XC164CS-32F20F BB-A-Step	SP000098787	15
SAF-TC1100-L100EB BB-Step	SP000099817	6	SAF-XC164CS-32F20F BB-A-Step	SP000224590	15
SAF-TC1100-L100EB-G BB-Step	SP000106546	6	SAF-XC164CS-32F40F BB-A-Step	SP000224593	15
SAF-TC1100-L100EB-G BB-Step	SP000106545	6	SAF-XC164CS-32F40F BB-A-Step	SP000098670	15
SAF-TC1100-L150EB BB-Step	SP000106548	6	SAF-XC164CS-32F40F BB-A-Step	SP000224592	15
SAF-TC1100-L150EB BB-Step	SP000106547	6	SAF-XC164CS-8F20F BB-Step	SP000094524	14
SAF-TC1100-L150EB-G BB-Step	SP000099816	6	SAF-XC164CS-8F20F BB-Step	SP000224555	14
SAF-TC1100-L150EB-G BB-Step	SP000099815	6	SAF-XC164CS-8F20F BB-Step	SP000094523	14
SAF-TC1115L-100EB BB-Step	SP000099814	6	SAF-XC164CS-8F20F BB-Step	SP000224554	14
SAF-TC1115L-100EB BB-Step	SP000099813	6	SAF-XC164CS-8F40F BB-Step	SP000094526	14
SAF-TC1115L-100EB-G BB-Step	SP000106544	6	SAF-XC164CS-8F40F BB-Step	SP000224557	14
SAF-TC1115L-100EB-G BB-Step	SP000106543	6	SAF-XC164CS-8F40F BB-Step	SP000094525	14
SAF-TC1115L-150EB BB-Step	SP000106542	6	SAF-XC164CS-8F40F BB-Step	SP000224556	14
SAF-TC1115L-150EB BB-Step	SP000106541	6	SAF-XC164D-16F20F BB-Step	SP000094288	16
SAF-TC1115L-150EB-G BB-Step	SP000099812	6	SAF-XC164D-16F20F BB-Step	SP000224569	16
SAF-TC1115L-150EB-G BB-Step	SP000099811	6	SAF-XC164D-16F20F BB-Step	SP000094287	16
SAF-TC1130L-100EB BB-Step	SP000099810	6	SAF-XC164D-16F20F BB-Step	SP000224568	16
SAF-TC1130L-100EB BB-Step	SP000099809	6	SAF-XC164D-16F40F BB-Step	SP000094300	16
SAF-TC1130L-100EB-G BB-Step	SP000106540	6	SAF-XC164D-16F40F BB-Step	SP000224573	16
SAF-TC1130L-100EB-G BB-Step	SP000106539	6	SAF-XC164D-16F40F BB-Step	SP000094299	16
SAF-TC1130L-150EB BB-Step	SP000099808	6	SAF-XC164D-16F40F BB-Step	SP000224572	16
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SAF-TC1130L-150EB-G BB-Step	SP000106119	6	SAF-XC164D-8F20F BB-Step	SP000094510	16
SAF-TC1161-128F66HL AA-Step	SP000105856	7	SAF-XC164D-8F20F BB-Step	SP000224580	16
SAF-TC1162-128F66HL AA-Step	SP000105857	7	SAF-XC164D-8F40F BB-Step	SP000094513	16
SAF-TC1163-128F80HL AA-Step	SP000105858	7	SAF-XC164D-8F40F BB-Step	SP000224587	16
SAF-TC1164-128F80HL AA-Step	SP000105859	7	SAF-XC164D-8F40F BB-Step	SP000094512	16
SAF-TC1165-192F80HL AA-Step	SP000105860	7	SAF-XC164D-8F40F BB-Step	SP000224586	16
SAF-TC1166-192F80HL AA-Step	SP000105861	7	SAF-XC164GM-4F20F AA-Step	SP000203871	17
SAF-TC1796-256F100E BC-Step	SP000064091	7	SAF-XC164GM-4F20F AA-Step	SP000105862	17
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SAF-XC161CJ-16F20F BB-Step	SP000231472	10	SAF-XC164GM-8F20F AA-Step	SP000105744	17
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SAF-XC161CJ-16F40F BB-Step	SP000224537	10	SAF-XC164GM-8F40F AA-Step	SP000105876	17
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