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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Obsolete
Core Processor	XC800
Core Size	8-Bit
Speed	27MHz
Connectivity	SPI, SSI, UART/USART
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Number of I/O	40
Program Memory Size	52KB (52K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	3.25K x 8
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V
Data Converters	A/D 8x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	64-LQFP
Supplier Device Package	PG-LQFP-64-4
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc87813ffa5vacfxuma1

Microcontrollers

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Summary of Types

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Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 8-bit				
XC800 Family XC888CM Series				
SAF-XC888CM-6RFA	SP000257476	XC888CM6RFAFZZA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte ROM, 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), with MDU module, -40°C to 85°C, tape & reel
SAK-XC888CM-6RFA 5V AA-Step	SP000257472	XC888CM6RFA5VAAKZZA1	PG-TQFP-64-8	as SAF-XC888CM-6RFA, 5-V power supply, -40°C to 125°C, tape & reel
SAF-XC888CM-8RFA AA-Step	SP000245812	XC888CM8RFAAAFZZA1	PG-TQFP-64-8	as SAF-XC888CM-6RFA 32-Kbyte ROM, -40°C to 85°C, tape & reel
SAK-XC888CM-8FFA 5V AC-Step	SP000607006	XC888CM8FFA5VACKXUMA1	PG-TQFP-64-8	as SAF-XC888CM-6RFA 32-Kbyte flash memory, 5-V power supply, with MDU module, -40°C to 125°C, tape & reel
SAF-XC888CM-8FFI 3V3 AC-Step	SP000607084	XC888CM8FFI3V3ACFXUMA1	PG-TQFP-64-8	as SAF-XC888CM-8FFA, industry quality level, 3.3-V power supply, tape & reel
SAF-XC888CM-8FFI 5V AC-Step	SP000655550	XC888CM8FFI5VACFXUMA1	PG-TQFP-64-8	as SAF-XC888CM-8FFA, industry quality level, 5-V power supply, tape & reel

XC888LM Series

SAK-XC888LM-6FFA 5V AC-Step	SP000210994	XC888LM6FFA5VACKXUMA1	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), 5-V power supply, with LIN BSL support and MDU module, -40°C to 125°C, tape & reel
▼ SAF-XC888LM-6FFI 3V3 AC-Step	SP000307472	XC888LM6FFI3V3ACFXUMA1	PG-TQFP-64-8	as SAF-XC888LM-6FFA, industry quality level, 3.3-V power supply, -40°C to 85°C, tape & reel
SAF-XC888LM-8FFI 5V AC-Step	SP000607064	XC888LM8FFI5VACFXUMA1	PG-TQFP-64-8	as SAK-XC888LM-6FFA 5V 24-Kbyte flash memory, industry quality level, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
XE166 Family				
XE162 Series				
(cont'd)				
▼SAF-XE162FN-40F80L AA-Step	SP000726684	XE162FN40F80LAAFZZA1	PG-LQFP-64-13	as SAF-XE162FN-24F80L, 320-Kbyte on-chip program memory (flash memory), tray
SAK-XE162FN-40F80L AA-Step	SP000634794	XE162FN40F80LAAKXUMA1	PG-LQFP-64-13	as SAF-XE162FN-40F80L, -40°C to 125°C, tape & reel
▼SAK-XE162HL-12F66L AA-Step	SP000859316	XE162HL12F66LAAKZZA1	PG-LQFP-64-22	Real time signal controller/ Econo Line 96-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), two capture/compare units (CCU60), 19-channel 12-bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tray
▼SAK-XE162HL-20F66L AA-Step	SP000859308	XE162HL20F66LAAKZZA1	PG-LQFP-64-22	as SAF-XE162HL-12F66L, 160-Kbyte on-chip program memory (flash memory), tray
▼SAF-XE162HL-12F80L AA-Step	SP000859318	XE162HL12F80LAAFZZA1	PG-LQFP-64-22	as SAK-XE162HL-12F66L, 80-MHz clock frequency, -40°C to 85°C, tray
▼SAF-XE162HL-20F80L AA-Step	SP000859310	XE162HL20F80LAAFQSA1	PG-LQFP-64-22	as SAF-XE162HL-12F80L, 160-Kbyte on-chip program memory (flash memory), tray
SAF-XE162HM-72F80L AA-Step	SP000397638	XE162HM72F80LAAFUMA1	PG-LQFP-64-13	as SAF-XE162FM-72F80L/ High Line no Full-CAN node, -40°C to 85°C, tape & reel
▼SAF-XE162HN-16F80L AA-Step	SP000518066	XE162HN16F80LAAFZZA1	PG-LQFP-64-13	as SAK-XE162FN-40F80L, Value Line 128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip program/data SRAM (PSRAM), no Full-CAN node, -40°C to 85°C, tape & reel
SAF-XE162HN-24F80L AA-Step	SP000518068	XE162HN24F80LAAFUMA1	PG-LQFP-64-13	as SAF-XE162HN-16F80L, 192-Kbyte on-chip program memory (flash memory), tape & reel
SAK-XE162HN-24F80L AA-Step	SP000692014	XE162HN24F80LAAKXUMA1	PG-LQFP-64-13	as SAF-XE162HN-24F80L, -40°C to 125°C, tape & reel
SAK-XE162HN-40F80L AA-Step	SP000692016	XE162HN40F80LAAKXUMA1	PG-LQFP-64-13	as SAF-XE162FN-24F80L, 320-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
Microcontrollers, 16-bit				
XE166 Family				
XE164G Series				
SAF-XE164G-24F66L AC-Step	SP000363797	XE164G24F66LACFXQMA1	PG-LQFP-100-3	Real time signal controller High performance CPU with five-stage pipeline, 192-Kbyte on-chip program memory (flash memory), 10-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), two capture/compare units (CCU6), 6+ 5-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE164G-24F66L AC-Step	SP000363795	XE164G24F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, tape & reel
SAF-XE164G-48F66L AC-Step	SP000363787	XE164G48F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164G-96F66L AC-Step	SP000363764	XE164G96F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164GM-24F80L AA-Step	SP000397568	XE164GM24F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164G-24F66, Base Line memory protection unit (MPU), 80-MHz clock frequency, tape & reel
SAF-XE164GM-72F80L AA-Step	SP000397564	XE164GM72F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164GM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAK-XE164GM-72F80L AA-Step	SP000628618	XE164GM72F80LAAKUMA1	PG-LQFP-100-8	as SAF-XE164GM-72F80L, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{DS}	$R_{DS(on)max}$	$V_{GS(th)}$	I_D
				V	mΩ	V	A

N-Channel MOSFETs

80 V

(cont'd)

IPP100N08N3 G	SP000680856	IPP100N08N3GXKSA1	TO-220	80	10.0	2.0 ... 3.5	70
IPP139N08N3 G	SP000680870	IPP139N08N3GXKSA1	TO-220	80	13.9	2.0 ... 3.5	45
IPU135N08N3 G	SP000521642	IPU135N08N3GBKMA1	IPAK	80	13.5	2.0 ... 3.5	50

85 V

▼ IPP054NE8N G	SP000680804	IPP054NE8NGHKS2	TO-220	85	5.4	2.0 ... 4.0	67
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100V

▼ BSB056N10NN3 G	SP000604540	BSB056N10NN3GXUMA1	CanPAK™ M-size	100	5.6	2.0 ... 3.5	83
▼ BSB056N10NN3 G	SP000856178	BSB056N10NN3GE8182XUMA1	CanPAK™ M-size	100	5.6	2.0 ... 3.5	83
▼ BSC046N10NS3 G	SP000907922	BSC046N10NS3GATMA1	SuperSO8	100	4.6	2.0 ... 3.5	100
BSC060N10NS3 G	SP000446584	BSC060N10NS3GATMA1	SuperSO8	100	6.0	2.0 ... 3.5	90
BSC070N10NS3 G	SP000778082	BSC070N10NS3GATMA1	SuperSO8	100	7.0	2.0 ... 3.5	90
■ BSC079N10NS G	SP000379590	BSC079N10NSGATMA1	SuperSO8	100	7.9	2.0 ... 4.0	100
BSC082N10LS G	SP000379609	BSC082N10LSGATMA1	SuperSO8	100	8.2	1.2 ... 2.4	100
■ BSC100N10NSF G	SP000379595	BSC100N10NSFGATMA1	SuperSO8	100	10	2.0 ... 4.0	90
BSC105N10LSF G	SP000388502	BSC105N10LSFGATMA1	SuperSO8	100	10.5	1.2 ... 2.4	90
BSC109N10NS3 G	SP000778132	BSC109N10NS3GATMA1	SuperSO8	100	10.9	2.0 ... 3.5	63
BSC118N10NS G	SP000379599	BSC118N10NSGATMA1	SuperSO8	100	11.8	2.0 ... 4.0	71
BSC123N10LS G	SP000379612	BSC123N10LSGATMA1	SuperSO8	100	12.3	1.2 ... 2.4	71
BSC152N10NSF G	SP000379601	BSC152N10NSFGATMA1	SuperSO8	100	15.2	2.0 ... 4.0	63
■ BSC159N10LSF G	SP000379614	BSC159N10LSFGATMA1	SuperSO8	100	15.9	1.2 ... 2.4	63
BSC160N10NS3 G	SP000482382	BSC160N10NS3GATMA1	SuperSO8	100	16	2.0 ... 3.5	42
BSC196N10NS G	SP000379604	BSC196N10NSGATMA1	SuperSO8	100	19.6	2.0 ... 4.0	45
BSC205N10LS G	SP000379616	BSC205N10LSGATMA1	SuperSO8	100	20.5	1.2 ... 2.4	45
BSC252N10NSF G	SP000379608	BSC252N10NSFGATMA1	SuperSO8	100	25.2	2.0 ... 4.0	39
BSC265N10LSF G	SP000379618	BSC265N10LSFGATMA1	SuperSO8	100	26.5	1.2 ... 2.4	40
BSC440N10NS3 G	SP000482420	BSC440N10NS3GATMA1	SuperSO8	100	44	2.0 ... 3.5	18
BSC750N10ND G	SP000359610	BSC750N10NDGATMA1	SuperSO8 dual	100	75	2.0 ... 4.0	13
BSZ160N10NS3 G	SP000482390	BSZ160N10NS3GATMA1	S3O8	100	16	2.0 ... 3.5	40
BSZ440N10NS3 G	SP000482442	BSZ440N10NS3GATMA1	S3O8	100	44	2.0 ... 3.5	18
IPA030N10N3 G	SP000464914	IPA030N10N3GXKSA1	TO-220 FullPAK	100	3.0	2.0 ... 3.5	79
IPA045N10N3 G	SP000478912	IPA045N10N3GXKSA1	TO-220 FullPAK	100	4.5	2.0 ... 3.5	64
IPA086N10N3 G	SP000485984	IPA086N10N3GXKSA1	TO-220 FullPAK	100	8.6	2.0 ... 3.5	45
IPA126N10N3 G	SP000485964	IPA126N10N3GXKSA1	TO-220 FullPAK	100	12.6	2.0 ... 3.5	35
IPA180N10N3 G	SP000480108	IPA180N10N3GXKSA1	TO-220 FullPAK	100	18	2.0 ... 3.5	19
IPB025N10N3 G	SP000469888	IPB025N10N3GATMA1	D ² PAK 7pin	100	2.5	2.0 ... 3.5	180
▼ IPB025N10N3 G	SP000939338	IPB025N10N3GE8187ATMA1	D ² PAK 7pin	100	2.5	2.0 ... 3.5	180
IPB027N10N3 G	SP000506508	IPB027N10N3GATMA1	D ² PAK	100	2.7	2.0 ... 3.5	120
IPB039N10N3 G	SP000482428	IPB039N10N3GATMA1	D ² PAK 7pin	100	3.9	2.0 ... 3.5	160
▼ IPB039N10N3 G	SP000939340	IPB039N10N3GE8187ATMA1	D ² PAK 7pin	100	3.9	2.0 ... 3.5	160
IPB042N10N3 G	SP000446880	IPB042N10N3GATMA1	D ² PAK	100	4.2	2.0 ... 3.5	100
▼ IPB042N10N3 G	SP000939332	IPB042N10N3GE8187ATMA1	D ² PAK	100	4.2	2.0 ... 3.5	100
IPB083N10N3 G	SP000458812	IPB083N10N3GATMA1	D ² PAK	100	8.2	2.0 ... 3.5	80
IPB123N10N3 G	SP000485968	IPB123N10N3GATMA1	D ² PAK	100	12.3	2.0 ... 3.5	58
■ IPB26CN10N G	SP000277692	IPB26CN10NGATMA1	D ² PAK	100	26	2.0 ... 4.0	35
■ IPB34CN10N G	SP000277693	IPB34CN10NGATMA1	D ² PAK	100	34	2.0 ... 4.0	27

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{DS}	$R_{DS(on) max}$	$V_{GS(th)}$	I_D
				V	mΩ	V	A

N-Channel MOSFETs**100 V**
(cont'd)

■	IPB50CN10N G	SP000277696	IPB50CN10NGATMA1	D ² PAK	100	50	2.0 ... 4.0	20
	IPD068N10N3 G	SP000469892	IPD068N10N3GBTMA1	DPAK	100	6.8	2.0 ... 3.5	90
	IPD082N10N3 G	SP000485986	IPD082N10N3GBTMA1	DPAK	100	8.2	2.0 ... 3.5	80
	IPD122N10N3 G	SP000485966	IPD122N10N3GBTMA1	DPAK	100	12.2	2.0 ... 4.0	59
■	IPD12CN10N G	SP000096476	IPD12CN10NGBUMA1	DPAK	100	12.4	2.0 ... 4.0	67
	IPD180N10N3 G	SP000482438	IPD180N10N3GBTMA1	DPAK	100	18	2.0 ... 3.5	43
	IPD25CN10N G	SP000096456	IPD25CN10NGBUMA1	DPAK	100	25	2.0 ... 4.0	35
	IPD33CN10N G	SP000096458	IPD33CN10NGBUMA1	DPAK	100	33	2.0 ... 4.0	27
	IPD78CN10N G	SP000096460	IPD78CN10NGBUMA1	DPAK	100	78	2.0 ... 4.0	13
	IPI0030N10N3 G	SP000680648	IPI030N10N3GXKSA1	I ² PAK	100	3.0	2.0 ... 3.5	100
■	IPI04CN10N G	SP000680660	IPI04CN10NGXKSA1	I ² PAK	100	4.2	2.0 ... 4.0	100
	IPI045CN10N3 G	SP000683068	IPI045N10N3GXKSA1	I ² PAK	100	4.5	2.0 ... 3.5	100
	IPI072CN10N3 G	SP000680674	IPI072N10N3GXKSA1	I ² PAK	100	7.2	2.0 ... 3.5	80
	IPI086CN10N3 G	SP000683070	IPI086N10N3GXKSA1	I ² PAK	100	8.6	2.0 ... 3.5	80
	IPI126N10N3 G	SP000683072	IPI126N10N3GXKSA1	I ² PAK	100	12.6	2.7 ... 3.5	46
	IPI180N10N3 G	SP000683076	IPI180N10N3GXKSA1	I ² PAK	100	18	2.7 ... 3.5	43
■	IPI26CN10N G	SP000208932	IPI26CN10NGHKSA1	I ² PAK	100	26	2.0 ... 4.0	35
■	IPI35CN10N G	SP000680730	IPI35CN10NGAKSA1	I ² PAK	100	35	2.0 ... 4.0	27
■	IPI50CN10N G	SP000208937	IPI50CN10NGHKSA1	I ² PAK	100	50	2.0 ... 4.0	20
■	IPI80CN10N G	SP000680758	IPI80CN10NGAKSA1	I ² PAK	100	80	2.0 ... 4.0	13
	IPP030N10N3 G	SP000680768	IPP030N10N3GXKSA1	TO-220	100	3.0	2.0 ... 3.5	100
■	IPP04CN10N G	SP000680796	IPP04CN10NGXKSA1	TO-220	100	4.2	2.0 ... 4.0	100
	IPP045N10N3 G	SP000680794	IPP045N10N3GXKSA1	TO-220	100	4.5	2.0 ... 3.5	100
■	IPP05CN10L G	SP000308801	IPP05CN10LGHKSA1	TO-220	100	5.1	1.2 ... 2.4	100
■	IPP05CN10N G	SP000680814	IPP05CN10NGXKSA1	TO-220	100	5.4	2.0 ... 4.0	100
	IPP06CN10L G	SP000680820	IPP06CN10LGXKSA1	TO-220	100	6.2	1.2 ... 2.4	100
	IPP072N10N3 G	SP000680830	IPP072N10N3GXKSA1	TO-220	100	7.2	2.0 ... 3.5	80
■	IPP08CN10L G	SP000308791	IPP08CN10LGHKSA1	TO-220	100	8.0	1.2 ... 2.4	98
	IPP086N10N3 G	SP000680840	IPP086N10N3GXKSA1	TO-220	100	8.6	2.0 ... 3.5	80
	IPP12CN10L G	SP000680864	IPP12CN10LGXKSA1	TO-220	100	12	1.2 ... 2.4	69
	IPP126N10N3 G	SP000683088	IPP126N10N3GXKSA1	TO-220	100	12.6	2.0 ... 3.5	58
	IPP16CN10L G	SP000680878	IPP16CN10LGXKSA1	TO-220	100	15.7	1.2 ... 2.4	54
■	IPP16CN10N G	SP000680880	IPP16CN10NGXKSA1	TO-220	100	16.5	2.0 ... 4.0	53
	IPP180N10N3 G	SP000683090	IPP180N10N3GXKSA1	TO-220	100	18	2.0 ... 3.5	43
■	IPP26CN10N G	SP000680922	IPP26CN10NGXKSA1	TO-220	100	26	2.0 ... 4.0	35
■	IPP50CN10N G	SP000680930	IPP50CN10NGXKSA1	TO-220	100	50	2.0 ... 4.0	20
■	IPP80CN10N G	SP000680966	IPP80CN10NGXKSA1	TO-220	100	80	2.0 ... 4.0	13
▼	IPS118N10N G	SP000680974		IPAK SL	100	11.8	2.0 ... 4.0	75
	IPS12CN10L G	SP000311530	IPS12CN10LGBKMA1	IPAK SL	100	12	1.2 ... 2.4	69
	BSP373	SP000087065	BSP373L6327HTSA1	SOT223	100	300	2.1 ... 4.0	1.70
	BSP372	SP000087064	BSP372L6327HTSA1	SOT223	100	310@5V	0.8 ... 2.0	1.7
	BSP296	SP000089209	BSP296L6327HTSA1	SOT223	100	700	0.8 ... 1.8	1.1
	BSP296 L6433	SP000089212	BSP296L6433HTMA1	SOT223	100	700	0.8 ... 1.8	1.1
	BSP123	SP000089202	BSP123L6327HTSA1	SOT223	100	6000	0.8 ... 1.8	0.37
	BSS123	SP000084574	BSS123L6327HTSA1	SOT23	100	6000	0.8 ... 1.8	0.17
	BSS123 L6433	SP000247292	BSS123L6433HTMA1	SOT23	100	6000	0.8 ... 1.8	0.37
	BSS119	SP000247290	BSS119L6327HTSA1	SOT23	100	6000	1.3 ... 2.3	0.17
	BSS119 L6433	SP000247291	BSS119L6433HTMA1	SOT23	100	6000	1.3 ... 2.3	0.17

SMD = Surface Mounted Device

Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				V_{DS}	$R_{DS(on) max}$	$V_{GS(th)}$	I_D
				V	mΩ	V	A

N-Channel MOSFETs

600 V

(cont'd)

SPP07N60C3	SP000013525	SPP07N60C3HKSA1	TO-220	600	440	2.1 ... 3.9	11
SPP07N60C3	SP000681030	SPP07N60C3XKSA1	TO-220	600	440	2.1 ... 3.9	11
SPP07N60CFD	SP000264424	SPP07N60CFDHKSA1	TO-220	600	600	3.0 ... 5.0	7.3
SPP07N60CFD	SP000681032	SPP07N60CFDXKSA1	TO-220	600	600	3.0 ... 5.0	7.3
SPP06N60C3	SP000014697	SPP06N60C3HKSA1	TO-220	600	600	2.1 ... 3.9	7.3
SPP06N60C3	SP000681028	SPP06N60C3XKSA1	TO-220	600	600	2.1 ... 3.9	7.3
SPP04N60C3	SP000013534	SPP04N60C3HKSA1	TO-220	600	720	2.1 ... 3.9	7.2
SPP03N60C3	SP000013524	SPP03N60C3HKSA1	TO-220	600	750	2.1 ... 3.9	6.2
SPP03N60C3	SP000681018	SPP03N60C3XKSA1	TO-220	600	750	2.1 ... 3.9	6.2
SPP02N60C3	SP000013523	SPP02N60C3HKSA1	TO-220	600	950	2.1 ... 3.9	4.5
SPP02N60C3	SP000681014	SPP02N60C3XKSA1	TO-220	600	950	2.1 ... 3.9	4.5
SPS04N60C3	SP000307419	SPS04N60C3BKMA1	IPAK SL	600	950	2.1 ... 3.9	4.5
SPS03N60C3	SP000307418	SPS03N60C3BKMA1	IPAK SL	600	1400	2.1 ... 3.9	3.2
SPS02N60C3	SP000307410	SPS02N60C3BKMA1	IPAK SL	600	3000	2.1 ... 3.9	1.8
SPS01N60C3	SP000307396	SPS01N60C3BKMA1	IPAK SL	600	6000	2.1 ... 3.9	0.8
SPU07N60C3	SP000101635	SPU07N60C3BKMA1	IPAK	600	600	2.1 ... 3.9	7.3
SPU04N60C3	SP000095850	SPU04N60C3BKMA1	IPAK	600	950	2.1 ... 3.9	4.5
SPU03N60C3	SP000095849	SPU03N60C3BKMA1	IPAK	600	1400	2.1 ... 3.9	3.2
SPU02N60C3	SP000015064	SPU02N60C3BKMA1	IPAK	600	3000	2.1 ... 3.9	1.8
SPU01N60C3	SP000012110	SPU01N60C3BKMA1	IPAK	600	6000	2.1 ... 3.9	0.8
IPW60R045CP	SP000067149	IPW60R045CPFKSA1	TO-247	600	45	2.5 ... 3.5	60
SPW47N60C3	SP000013953	SPW47N60C3CKSA1	TO-247	600	70	2.1 ... 3.9	47
IPW60R075CP	SP000358192	IPW60R075CPFKSA1	TO-247	600	75	2.5 ... 3.5	39
SPW47N60CFD	SP000065376	SPW47N60CFDFKSA1	TO-247	600	80	3.0 ... 5.0	46
IPW60R099CP	SP000067147	IPW60R099CPFKSA1	TO-247	600	99	2.5 ... 3.5	31
SPW35N60C3	SP000014970	SPW35N60C3FKSA1	TO-247	600	100	2.1 ... 3.9	34.6
SPW35N60CFD	SP000065487	SPW35N60CFDFKSA1	TO-247	600	115	3.0 ... 5.0	34.1
IPW60R125CP	SP000088489	IPW60R125CPFKSA1	TO-247	600	125	2.5 ... 3.5	25
SPW24N60C3	SP000014695	SPW24N60C3CKSA1	TO-247	600	160	2.1 ... 3.9	24.3
IPW60R165CP	SP000095483	IPW60R165CPCKSA1	TO-247	600	165	2.5 ... 3.5	21
SPW24N60CFD	SP000264428	SPW24N60CFDFKSA1	TO-247	600	185	3.0 ... 5.0	21.7
SPW20N60C3	SP000013729	SPW20N60C3CKSA1	TO-247	600	190	2.1 ... 3.9	20.7
IPW60R199CP	SP000089802	IPW60R199CPFKSA1	TO-247	600	199	2.5 ... 3.5	16
SPW20N60CFD	SP000014535	SPW20N60CFDFKSA1	TO-247	600	220	3.0 ... 5.0	20.7
IPW60R250CP	SP000310511	IPW60R250CPFKSA1	TO-247	600	250	2.5 ... 3.5	12
SPW15N60C3	SP000014530	SPW15N60C3FKSA1	TO-247	600	280	2.1 ... 3.9	15
IPW60R299CP	SP000103251	IPW60R299CPFKSA1	TO-247	600	299	2.5 ... 3.5	11
SPW15N60CFD	SP000264429	SPW15N60CFDFKSA1	TO-247	600	330	3.0 ... 5.0	13.4
SPW11N60C3	SP000013728	SPW11N60C3CKSA1	TO-247	600	380	2.1 ... 3.9	11
SPW11N60CFD	SP000014534	SPW11N60CFDFKSA1	TO-247	600	440	3.0 ... 5.0	11
SPW07N60CFD	SP000264430	SPW07N60CFDFKSA1	TO-247	600	700	3.0 ... 5.0	6.6
BSS127	SP000705718	BSS127H6327XTSA1	SOT23	600	500000	1.4 ... 2.6	0.023
BSS225	SP000095776	BSS225L6327HTSA1	SOT89	600	45000	1.3 ... 2.3	0.09

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
Power Management ICs				
Coreless Transformer ISOFACE™				
ISO1H801G	SP000722122	ISO1H801GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625 A high-side output, 5 V operating voltage, tape & reel
ISO1H811G	SP000413798	ISO1H811GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625 A high-side output, 3.3 - 5 V operating voltage, UL508 compliant, isolated return path for DIAG signal, tape & reel
ISO1H812G	SP000413800	ISO1H812GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625 A high-side output, 3.3 - 5 V operating voltage, UL508 compliant, isolated return path for DIAG signal, tape & reel
ISO1H815G	SP000555576	ISO1H815GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 1.2 A high-side output, 3.3 - 5 V operating voltage, isolated return path for DIAG signal, tape & reel
ISO1H816G	SP000555578	ISO1H816GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial μ C compatible interface, all types of resistive, inductive and capacitive loads, 1.2 A high-side output, 3.3 - 5 V operating voltage, isolated return path for DIAG signal, tape & reel
▼ ISO1I811T	SP000876494	ISO1I811TXUMA1	PG-TSSOP-48	Isolated 8-channel digital input with IEC61131-2 type 1/2/3 characteristics for industrial applications, status LED output for each input, 3.3 - 5 V operating voltage, isolation between input and output using Coreless Transformer Technology, 125-kHz sampling frequency, tape & reel
▼ ISO1I813T	SP000876504	ISO1I813TXUMA1	PG-TSSOP-48	Isolated 8-channel digital input with IEC61131-2 type 1/2/3 characteristics for industrial applications, status LED output for each input, 3.3 - 5 V operating voltage, isolation between input and output using Coreless Transformer Technology, 500-kHz sampling frequency, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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Power Management ICs**Resonant Mode Controller**

ICE1HS01G	SP000710658	ICE1HS01GXUMA1	SO-8	Half-bridge LLC resonant controller with two gate outputs, 600-kHz switching frequency, minimum number of external components, high accuracy oscillator, tape & reel
ICE2HS01G	SP000793084	ICE2HS01GXUMA1	SO-20	High performance mode controller for half-bridge LLC resonant controller with four gate outputs and synchronous rectification drives, 30-kHz - 1-MHz switching frequency, tape & reel

Fan Speed Controller ICs

TDA21801	SP000697956	TDA21801XUMA1	SO-8	Fan speed controller for SMPS, adjustable fan speed, fan On/OFF, over-temperature protection (OTP), tape & reel
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Integrated Power Stages and DrMOS

TDA21211	SP000464906	TDA21211AUMA1	IQFN-40	High-performance DrMOS, power MOSFET and driver in one package, max. peak current of 35 A, input voltage range +5 V to +30 V, tape & reel
TDA21220	SP000746644	TDA21220AUMA1	IQFN-40	High-performance DrMOS, power MOSFET and driver in one package, max. peak current of 50 A, input voltage range +4.5 V to +16 V, tape & reel

MOSFET Driver IC

PX3516ADDG-R4	SP000704414	PX3516ADDGR4XTMA1	SuperS08	Dual MOSFET driver for synchronous rectified bridge converters, adjust. high-side and low-side MOSFET gate drive voltages for optimal efficiency, 50 A, tape & reel
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SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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Automotive Transceivers and SBCs**Embedded Power**

TLE7810G	SP000313890	TLE7810GXUMA1	PG-DSO-28-6	Integrated double low-side switch for automotive applications, high-side/LED driver, hall supply, wake-up inputs and LIN communication with embedded MCU (16-Kbyte flash), tape & reel
TLE7824G	SP000264461	TLE7824GXUMA1	PG-DSO-28-38	Integrated double low-side switch, high-side/LED driver, hall supply, wake-up inputs and LIN communication with embedded MCU (24-Kbyte flash), tape & reel
TLE7826G	SP000264462	TLE7826GXUMA1	PG-DSO-28-38	Integrated double low-side switch, high-side/LED driver, hall supply, wake-up inputs and LIN communication with embedded MCU (32-Kbyte flash), tape & reel

Specific Automotive ICs**Application Specific Standard Products for Restraint Systems**

TLE6710Q	SP000013708	TLE6710QNUMA1	P-MQFP-64-1	Power supply communication four squib driver airbag system ICs, tape & reel
TLE6712G	SP000013710	TLE6712GNTMA1	P-DSO-24-10	Two squib airbag firing ICs, tape & reel
TLE6714G	SP000013709	TLE6714GNTMA1	P-DSO-28-1	Quad squib airbag firing ICs, tape & reel
TLE7729T	SP000312977	TLE7729TXUMA1	PG-TSSOP-28	Quad channel airbag satellite receiver ICs (SatRIC™), tape & reel

Application Specific Standard Products for Vehicle Stability - Braking (ABS/ESP)

TLE6212	SP000451438	TLE6212XUMA1	PG-LQFP-64-1	System-IC for ABS/Traction Control/Electronic Stability Control, tape & reel
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Application Specific Standard Products for Gasoline Direct Injection

TLE6270R	SP000469954	TLE6270RAUMA1	PG-DSO-36	Quad low side injector driver for gasoline direct injection, tape & reel
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SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ($T_A = 25^\circ\text{C}$)	
				V_R	I_F	V_F	at I_F
				V	mA	V	mA

Schottky Diodes

Medium Power $I_{Fmax} \geq 500 \text{ mA}$

BAS3005A-02V	3k*	SP000749684	BAS3005A02VH6327XTSA1	SC79	30	500	0.370	200
BAS3005B-02V	3k*	SP000749682	BAS3005B02VH6327XTSA1	SC79	30	500	0.410	200
BAS3005S-02LRH	15k*	SP000472478	BAS3005S02LRHE6327XTMA1	TSLP-2-17	30	500	0.370	200
BAS3010A-03W	3k*	SP000068629	BAS3010A03WE6327HTSA1	SOD323	30	1000	0.350	500
BAS3010B-03W	3k*	SP000068630	BAS3010B03WE6327HTSA1	SOD323	30	1000	0.420	500
BAS3010S-02LRH	15k*	SP000472480	BAS3010S02LRHE6327XTMA1	TSLP-2-17	30	1000	0.500	700
BAS3020B	3k*	SP000749686	BAS3020BH6327XTSA1	SOT363	30	2000	0.410	1000
BAS4002S-02LRH	15k*	SP000472476	BAS4002S02LRHE6327XTMA1	TSLP-2-17	40	200	0.420	100
BAS52-02V	3k*	SP000749808	BAS5202VH6327XTSA1	SC79	45	750	0.430	100
BAS52-02V	10k*	SP000749810	BAS5202VH6433XTMA1	SC79	45	750	0.430	100
BAT165	3k*	SP000010277	BAT165E6327HTSA1	SOD323	40	750	0.350	100
BAT60A	3k*	SP000010294	BAT60AE6327HTSA1	SOD323	10	3000	0.300	1000
BAT60B	3k*	SP000010296	BAT60BE6327HTSA1	SOD323	10	3000	0.400	1000

High Speed Switching, Clipping and Clamping

BAS125-04W (Dual)	3k*	SP000749598	BAS12504WH6327XTSA1	SOT323	25	100	0.385	1
BAS125-05W (Dual)	3k*	SP000749600	BAS12505WH6327XTSA1	SOT323	25	100	0.385	1
BAS125-07W (Dual)	3k*	SP000749602	BAS12507WH6327XTSA1	SOT343	25	100	0.385	1
BAS140W	3k*	SP000010199	BAS140WE6327HTSA1	SOD323	40	120	0.310	1
BAS170W	3k*	SP000010216	BAS170WE6327HTSA1	SOD323	70	70	0.375	1
BAS40	3k*	SP000010235	BAS40E6327HTSA1	SOT23	40	120	0.310	1
BAS40	10k*	SP000010233	BAS40E6433HTMA1	SOT23	40	120	0.310	1
BAS40-02L	15k*	SP000013549	BAS4002LE6327XTMA1	TSLP-2-1	40	120	0.310	1
BAS40-04 (Dual)	3k*	SP000010241	BAS4004E6327HTSA1	SOT23	40	120	0.310	1
BAS40-04 (Dual)	10k*	SP000010243	BAS4004E6433HTMA1	SOT23	40	120	0.310	1
BAS40-05 (Dual)	3k*	SP000010240	BAS4005E6327HTSA1	SOT23	40	120	0.310	1
BAS40-05 (Dual)	10k*	SP000010242	BAS4005E6433HTMA1	SOT23	40	120	0.310	1
BAS40-05W (Dual)	3k*	SP000749762	BAS4006E6327BTSA1	SOT323	40	120	0.310	1
BAS40-06 (Dual)	3k*	SP000010239	BAS4006E6327HTSA1	SOT23	40	120	0.310	1
BAS40-06 (Dual)	10k*	SP000010244	BAS4006E6433HTMA1	SOT23	40	120	0.310	1
BAS40-06W (Dual)	3k*	SP000749764	BAS4006WH6327XTSA1	SOT323	40	120	0.310	1
BAS40-07 (Dual)	3k*	SP000010245	BAS4007E6327HTSA1	SOT143	40	120	0.310	1
BAS40-07W (Dual)	3k*	SP000749806	BAS4007WH6327XTSA1	SOT343	40	120	0.310	1

* order unit

SMD = Surface Mounted Device

General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings				Resistance Value	
				V_{CEO}	$V_{I(on) max}$	I_C	P_{tot}	R_1	R_2
				V	V	mA	mW	k Ω	k Ω

Digital Transistors

Single $I_C \leq 100$ mA

(cont'd)

BCR192W	3k*	SP000757898	BCR192WH6327XTSA1	SOT323	50	30	100	250	22	47
BCR196	3k*	SP000014762	BCR196E6327HTSA1	SOT23	50	50	70	250	47	22
BCR196W	3k*	SP000757902	BCR196WH6327XTSA1	SOT323	50	50	70	250	47	22
BCR198	3k*	SP000010817	BCR198E6327HTSA1	SOT23	50	50	70	200	47	47
BCR198	10k*	SP000010820	BCR198E6433HTMA1	SOT23	50	50	70	200	47	47
BCR198	10x3k*	SP000056350	BCR198B6327HTSA1	SOT23	50	50	70	200	47	47
BCR198W	3k*	SP000757912	BCR198WH6327XTSA1	SOT323	50	50	70	250	47	47

Dual $I_C \leq 100$ mA

BCR108S	3k*	SP000750774	BCR108SH6327XTSA1	SOT363	50	10	100	250	2.2	47
BCR108S	10k*	SP000750778	BCR108SH6433XTMA1	SOT363	50	10	100	250	2.2	47
BCR116S	3k*	SP000752050	BCR116SH6327XTSA1	SOT363	50	15	100	250	4.7	47
BCR119S	3k*	SP000754074	BCR119SH6327XTSA1	SOT363	50	15	100	250	4.7	—
BCR119S	10k*	SP000755042	BCR119SH6433XTMA1	SOT363	50	15	100	250	4.7	—
BCR129S	3k*	SP000755046	BCR129SH6327XTSA1	SOT363	50	20	100	250	10	—
BCR133S	3k*	SP000755050	BCR133SH6327XTSA1	SOT363	50	20	100	250	10	10
BCR133S	10k*	SP000755082	BCR133SH6433XTMA1	SOT363	50	20	100	250	10	10
BCR135S	3k*	SP000756248	BCR135SH6327XTSA1	SOT363	50	20	100	250	10	47
BCR141S	3k*	SP000756256	BCR141SH6327XTSA1	SOT363	50	30	100	250	22	22
BCR148S	3k*	SP000756262	BCR148SH6327XTSA1	SOT363	50	50	70	250	47	47
BCR148S	10k*	SP000756264	BCR148SH6433XTMA1	SOT363	50	50	70	250	47	47
BCR169S	3k*	SP000756842	BCR169SH6327XTSA1	SOT363	50	15	100	250	4.7	—
BCR183S	3k*	SP000756882	BCR183SH6327XTSA1	SOT363	50	20	100	250	10	10
BCR183U	3k*	SP000012552	BCR183UE6327HTSA1	SC74	50	20	100	250	10	10
BCR185S	3k*	SP000757888	BCR185SH6327XTSA1	SOT363	50	20	100	250	10	47
BCR198S	3k*	SP000757904	BCR198SH6327XTSA1	SOT363	50	50	70	250	47	47
BCR08PN	3k*	SP000750766	BCR08PNH6327XTSA1	SOT363	50	50	100	250	2.2	47
BCR08PN	3k*	SP000750772	BCR08PNH6727XTSA1	SOT363	50	50	100	250	2.2	47
BCR08PN	10k*	SP000750770	BCR08PNH6433XTMA1	SOT363	50	50	100	250	2.2	47
BCR10PN	3k*	SP000750782	BCR10PNH6327XTSA1	SOT363	50	25	100	250	10	10
BCR10PN	3k*	SP000750786	BCR10PNH6727XTSA1	SOT363	50	25	100	250	10	10
BCR10PN	10k*	SP000750788	BCR10PNH6730XTMA1	SOT363	50	25	100	250	10	10
BCR22PN	3k*	SP000757916	BCR22PNH6327XTSA1	SOT363	50	30	100	250	22	22
BCR22PN	10k*	SP000757920	BCR22PNH6433XTMA1	SOT363	50	30	100	250	22	22
BCR35PN	3k*	SP000757922	BCR35PNH6327XTSA1	SOT363	50	20	100	250	10	47
BCR35PN	10k*	SP000757928	BCR35PNH6433XTMA1	SOT363	50	20	100	250	10	47
BCR48PN	3k*	SP000757930	BCR48PNH6327XTSA1	SOT363	50	50/10	100	250	47/2.2	47/47

* order unit

SMD = Surface Mounted Device

LED Driver & Lighting ICs

Type	Ordering Code	Orderable Part Number	Package	Description
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Switch-Mode and Linear LED Drivers for Automotive Lighting Applications

Basic LED Driver ICs

TLE4240-2M	SP000255105	TLE42402MHTSA1	SCT595	Lowdrop LED driver, 58 mA current output, tape & reel
TLE4240-3M	SP000255106	TLE42403MHTSA1	SCT595	Lowdrop LED driver, 58 mA current output, open load detection, tape & reel
TLE4241GM	SP000410436	TLE4241GMFUMA1	PG-DSO-8-9	Lowdrop LED driver, with adjustable current output (8/65 V), Inhibit, tape & reel
TLE4242G	SP000299340	TLE4242GATMA1	PG-TO263-7-1	Lowdrop LED driver, with adjustable current output up to 500 mA, Inhibit, tape & reel
TLD1211SJ	SP000735204	TLD1211SJFUMA1	PG-DSO-8-16	Basic LED driver, high side current source, 1 channel, typical 85 mA load current, up to 2.5 A load current using external transistors, tape & reel

Power LED Driver ICs

▼ TLD5045EJ	SP000769888	TLD5045EJXUMA1	PG-DSO-8 EP	Power LED driver, 700 mA high integration DC/DC step-down converter, constant current generation, peak current regulation, tape & reel
TLD5085EJ	SP000550912	TLD5085EJFUMA1	PG-DSO-8 EP	Power LED driver, 1.8 A DC/DC step-down converter, constant current or constant voltage regulation, PWM dimming, tape & reel
TLD5095EL	SP000464524	TLD5095ELXUMA1	PG-SSOP-14 EP	Power LED driver, DC/DC Boost, Buck Boost, SEPIC controller, constant current or constant voltage regulation, Enable function, implemented status pin to indicate fault conditions, tape & reel
TLD5098EL	SP000671268	TLD5098ELXUMA1	PG-SSOP-14 EP	Power LED driver, DC/DC Boost, Buck Boost, SEPIC controller, constant current or constant voltage regulation, Enable function, analog dimming feature to adjust average LED current, tape & reel

Off-Line LED Driver ICs

ICL8001G	SP000773086	ICL8001GXUMA1	PG-DSO-8-1	LED driver for ultra-high-power LEDs, with adjustable up to 1.8 A constant current, integrated power stage, dimmable solutions, tape & reel
▼ ICL8082G	SP000899842	ICLS8082GXUMA1	PG-DSO-12-1	Off-line LED controller for PFC and dimming with integrated 800 V CoolMOS™, tape & reel
▼ ICLS6021J	SP000869140	ICLS6021JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 1.6 A, tube
▼ ICLS6022G	SP000897654	ICLS6022GXUMA1	PG-DSO-16/12	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 2.3 A, tape & reel
▼ ICLS6022J	SP000877356	ICLS6022JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 2.3 A, tube
▼ ICLS6023J	SP000890998	ICLS6023JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 6.1 A, tube
▼ ICLS6023Z	SP000891000	ICLS8023ZXKLA1	PG-DIP-7-1	Off-line LED current mode controller with integrated 800 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 4.9 A, tube

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Page	Type	Ordering Code	Orderable Part Number	Page		
Numerics				BAR90-098LRH	15k	SP000053484	BAR90098LRHE6327XTSA1	151	
1ED020I12-B2	SP000898878	1ED020I12B2XUMA1	122	BAS116	10k	SP000010196	BAS116E6433HTMA1	175	
1ED020I12-BT	SP000920032		122	BAS116	3k	SP000010194	BAS116E6327HTSA1	175	
1ED020I12-F	SP000391828	1ED020I12FXUMA1	122	BAS125-04W (Dual)	3k	SP000749598	BAS12504WH6327XTSA1	163	
1ED020I12-F2	SP000920028	1ED020I12F2XUMA1	122	BAS125-05W (Dual)	3k	SP000749600	BAS12505WH6327XTSA1	163	
1ED020I12-FT	SP000920030	1ED020I12FTXUMA1	122	BAS125-07W (Dual)	3k	SP000749602	BAS12507WH6327XTSA1	163	
1ED020I12FA	SP000436718	1ED020I12FAXUMA1	122	BAS140W	3k	SP000010199	BAS140WE6327HTSA1	163	
1ED020I12FA2	SP000898880	1ED020I12FA2XUMA1	122	BAS16-02L	15k	SP000013548	BAS1602LE6327XTMA1	174	
1ED020I12FTA	SP000439658	1ED020I12FTAXUMA1	122	BAS16-02V	3k	SP000752008	BAS1602VH6327XTSA1	174	
2ED020I06-FA	SP000850124	2ED020I12FAXUMA1	122	BAS16-02W	3k	SP000752010	BAS21UE6327BTSA1	174	
2ED020I06-FI	SP000776988	2ED020I06FIXUMA1	122	BAS16-03W	3k	SP000010213	BAS1603WE6327HTSA1	174	
2ED020I12-F2	SP000920036		122	BAS16	10k	SP000010201	BAS16E6433HTMA1	174	
2ED020I12-FI	SP000265782	2ED020I12FIXUMA1	122	BAS16	3k	SP000010203	BAS16E6327HTSA1	174	
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2N7002DW	SP000408436	2N7002DWL6327HTSA1	80	BAS16S (Triple)	3k	SP000753164	BAS16SH6727XTSA1	174	
2N7002DW	SP000917596	2N7002DWH6327XTSA1	80	BAS16U (Triple)	3k	SP000012608	BAS16UE6327HTSA1	174	
6ED003L02-F	SP000654950	6ED003L02FXUMA1	122	BAS16W	10k	SP000753168	BAS16WH6433XTMA1	174	
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6EDL04N06PT	SP000926102	6EDL04N06PTXUMA1	122	BAS21U (Triple)	10k	SP000471142	BAS21UE6433HTMA1	174	
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				BAS28 (Dual)	10k	SP000010228	BAS28E6433HTMA1	174	
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BA892	3k	SP000745044	BA892H6770XTSA1	152	BAS40-04 (Dual)	10k	SP000010243	BAS4004E6433HTMA1	163
BA892	8k	SP000745042	BA892H6127XTSA1	152	BAS40-04 (Dual)	3k	SP000010241	BAS4004E6327HTSA1	163
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TLE5009 E2010	SP000912770	TLE5009E2010FUMA1	189	TLE7241E	SP000485116	TLE7241EXUMA1	111
TLE5011	SP000857850	TLE5011FUMA1	189	TLE7242-2G	SP000318374	TLE72422GXUMA1	111
TLE5012B E1000	SP000905682	TLE5012BE1000FUMA1	189	TLE7243SL	SP000897478	TLE7243SLXUMA2	111
TLE5012B E3005	SP000905686	TLE5012BE3005FUMA1	189	TLE7244SL	SP000897480	TLE7244SLXUMA2	111
TLE5012B E5000	SP000905690	TLE5012BE5000FUMA1	189	TLE7259-2GE	SP000299877	TLE72592GEXUMA1	140
TLE5012B E9000	SP000905694	TLE5012BE9000FUMA1	189	TLE7259-2GE	SP000692470	TLE72592GEXUMA2	140
TLE5025C E6747	SP000317777	TLE5025CE6747HAMA1	187	TLE7259-2GU	SP000304077	TLE72592GUXUMA1	140
TLE5027C E6747	SP000317779	TLE5027CE6747HAMA1	187	TLE7263E	SP000075929	TLE7263EXUMA1	139
TLE5205-2	SP000377306	TLE52052AKSA1	119	TLE7269G	SP000104277	TLE7269GXUMA1	140
TLE5205-2G	SP000377307	TLE52052GAUMA1	119	TLE7270	SP000055309	TLE7270GNTMA1	127
TLE5205-2GP	SP000304412	TLE52052GPAUMA1	119	TLE7270-2D	SP000457356	TLE72702DATMA1	127
TLE5205-2S	SP000377308	TLE52052SAKSA1	119	TLE7270-2E	SP000457382	TLE72702EXUMA1	127
TLE5206-2	SP000377309	TLE52062AKSA1	119	TLE7270-2G	SP000457384	TLE72702GATMA1	127
TLE5206-2G	SP000377310	TLE52062AKSA1	119	TLE7272-2D	SP000468052	TLE72722DATMA1	127
TLE5206-2GP	SP000304413	TLE52062GPAUMA1	119	TLE7272-2E	SP000457386	TLE72722EXUMA1	127
TLE5206-2S	SP000377311	TLE52062SAKSA1	119	TLE7273-2E V50	SP000369460	TLE72732EV50XUMA1	127
TLE6208-3G	SP000305935	TLE62083GXUMA1	119	TLE7273-2G V26	SP000369461	TLE72732GV26XUMA1	126
TLE6208-6G	SP000305936	TLE62086GXUMA1	119	TLE7273-2G V33	SP000369462	TLE72732GV33XUMA1	127
TLE6209R	SP000732082	TLE6209RAUMA2	119	TLE7273-2G V50	SP000369463	TLE72732GV50XUMA1	127
TLE6212	SP000451438	TLE6212XUMA1	141	TLE7274-2D	SP000468054	TLE72742DATMA1	127
TLE6217G	SP000435876	TLE6217GAUMA1	111	TLE7274-2E	SP000457388	TLE72742EXUMA1	127
TLE6220GP	SP000691118	TLE6220GPAUMA2	111	TLE7274-2G	SP000468056	TLE72742GATMA1	127
TLE6228GP	SP000801282	TLE6228GPAUMA2	111	TLE7274D	SP000055849	TLE7274DNTMA1	127
TLE6230GP	SP000691114	TLE6230GPAUMA1	111	TLE7276-2D	SP000457394	TLE72762DATMA1	127
TLE6232GP	SP000691110	TLE6232GPAUMA2	111	TLE7276-2E	SP000457396	TLE72762EXUMA1	127
TLE6240GP	SP000627670	TLE6240GPAUMA1	111	TLE7278-2E V50	SP000369464	TLE72782EV50XUMA1	127
TLE6244X	SP000304416	TLE6244XAUMA1	111	TLE7278-2G V26	SP000369465	TLE72782GV26XUMA1	127
TLE6250G	SP000316311	TLE6250GXUMA1	139	TLE7278-2G V33	SP000369466	TLE72782GV33XUMA1	127
TLE6250G V33	SP000382100	TLE6250GV33XUMA1	139	TLE7278-2G V50	SP000369467	TLE72782GV50XUMA1	127
TLE6251-2G	SP000407102	TLE62512GXUMA1	139	TLE7279-2E V50	SP000369468	TLE72792EV50XUMA1	127
TLE6251-3G	SP000823130	TLE62513GXUMA1	139	TLE7279-2G V26	SP000369469	TLE72792GV26XUMA1	127
TLE6251DS	SP000294173	TLE6251DSXUMA1	139	TLE7279-2G V33	SP000369470	TLE72792GV33XUMA1	127
TLE6251G	SP000082094	TLE6251GNTMA1	139	TLE7279-2G V50	SP000369471	TLE72792GV50XUMA1	127
TLE6254-3G	SP000316313	TLE62543GXUMA1	139	TLE7368-2E	SP000768086	TLE73682EXUMA1	129
TLE6254-3G	SP000692476	TLE62543GXUMA2	140	TLE7368-3E	SP000794336	TLE73683EXUMA1	129
TLE6255G	SP000012141	TLE6255GNTMA1	140	TLE7368E	SP000307244	TLE7368EXUMA1	129
TLE6258-2G	SP000297762	TLE62582GXUMA1	140	TLE7469G V52	SP000316703	TLE7469GV52AUMA1	128
TLE6259-2G	SP000316315	TLE62592GXUMA1	140	TLE7469G V53	SP000316704	TLE7469GV53AUMA1	128
TLE6263-3G	SP000314997	TLE62633GXUMA1	139	TLE7729T	SP000312977	TLE7729TXUMA1	141
TLE6270R	SP000469954	TLE6270RAUMA1	141	TLE7810G	SP000313890	TLE7810GXUMA1	141
TLE6280GP	SP000362092	TLE6280GPAUMA1	118	TLE7824G	SP000264461	TLE7824GXUMA1	141
TLE6280GP	SP000712092	TLE6280GPAUMA2	118	TLE7826G	SP000264462	TLE7826GXUMA1	141
TLE6281G	SP000362093	TLE6281GXUMA1	118	TLE8102SG	SP000377621	TLE8102SGCUMA1	111
TLE6282G	SP000362094	TLE6282GXUMA1	118	TLE8104E	SP000766202	TLE8104EXUMA2	111
TLE6284G	SP000362095	TLE6284GXUMA1	118	TLE8108EM	SP000766920	TLE8108EMXUMA1	111
TLE6287GP	SP000014090	TLE6280GPCUMA1	118	TLE8110EE	SP000263906	TLE8110EEXUMA1	111
TLE6288R	SP000691124	TLE6288RAUMA2	111	TLE8201R	SP000107174	TLE8201RAUMA1	121
TLE6361G	SP000013297	TLE6361GNUMA1	129	TLE8203E	SP000310729	TLE8203EXUMA1	121
TLE6365G	SP000317609	TLE6365GXUMA1	129	TLE8209-2SA	SP000541758	TLE82092SAUMA1	119
TLE6368G2	SP000656590	TLE6368G2AUMA1	129	TLE8250G	SP000551642	TLE8250GXUMA1	139
TLE6368G2	SP000881176	TLE6368G2AUMA2	129	TLE8250GVIO	SP000691818	TLE8250GVIOXUMA1	139
TLE6389-2G V50	SP000317610	TLE63892GV50XUMA1	129	TLE8261-2E	SP000454466	TLE82612EXUMA1	139
TLE6389-2GV	SP000317611	TLE63892GVXUMA1	129	TLE8261E	SP000317792	TLE8261EXUMA1	139
TLE6389-3G V50	SP000317612	TLE63893GV50XUMA1	129	TLE8262-2E	SP000454468	TLE82622EXUMA1	139
TLE6710Q	SP000013708	TLE6710QNUMA1	141	TLE8262E	SP000317793	TLE8262EXUMA1	139
TLE6711G	SP000317613	TLE6711GXUMA1	129	TLE8263-2E	SP000379937	TLE82632EXUMA1	139
TLE6711GL	SP000317614	TLE6711GLXUMA1	129	TLE8263E	SP000317795	TLE8263EXUMA1	139
TLE6712G	SP000013710	TLE6712GNTMA1	141	TLE8264-2E	SP000379938	TLE82642EXUMA1	139
TLE6714G	SP000013709	TLE6714GNTMA1	141	TLE8264E	SP000317796	TLE8264EXUMA1	139
TLE7181EM	SP000628808	TLE7181EMXUMA1	118	TLE8366E V33	SP000549726	TLE8366EV33XUMA1	129
TLE7182EM	SP000628810	TLE7182EMXUMA1	118	TLE8366E V50	SP000550310	TLE8366EV50XUMA1	129
TLE7183F	SP000065802	TLE7183FXUMA4	118	TLE8366EV	SP000297388	TLE8366EVXUMA1	129
TLE7183F	SP000317385	TLE7183FXUMA2	118	TLE8386-2EL	SP000685670	TLE83862ELXUMA1	129
TLE7183F	SP000317391	TLE7183FXUMA3	118	TLE8386EL	SP000426670	TLE8386ELXUMA1	129
TLE7183QU	SP000868988	TLE7183QUXUMA1	118	TLE84106EL	SP000619116	TLE84106ELXUMA1	119
TLE7184F	SP000362096	TLE7184FXUMA1	118	TLE84110EL	SP000670380	TLE84110ELXUMA1	119
TLE7184F3V	SP000864920	TLE7184F3VXUMA1	118	TLE8444SL	SP000394373	TLE8444SLXUMA1	119
TLE7185-1E	SP000851146	TLE71851EXUMA1	118	TLE8458E	SP000359988	TLE8458EXUMA1	140
TLE7189F	SP000248208	TLE7189FXUMA1	118	TLE8458E V33	SP000359989	TLE8458EV33XUMA1	140
TLE7189QK	SP000528310	TLE7189QKXUMA1	118	TLE8458EU	SP000359992	TLE8458EUXUMA1	140
TLE7230G	SP000311687	TLE7230GXUMA1	111	TLE8458EU V33	SP000359993	TLE8458EUV33XUMA1	140
TLE7230R	SP000311685	TLE7230RAUMA1	111	TLE8458G	SP000359994	TLE8458GXUMA1	140
TLE7231G	SP000297859	TLE7231GXUMA1	111	TLE8458G V33	SP000359996	TLE8458GV33XUMA1	140
TLE7232G	SP000311690	TLE7232GXUMA1	111	TLE8458GU	SP000359997	TLE8458GUXUMA1	140
TLE7233G	SP000297860	TLE7233GXUMA1	111	TLE8458GU V33	SP000359999	TLE8458GUV33XUMA1	140
TLE7234EM	SP000670334	TLE7234EMXUMA1	111	TLF2931G V33	SP000848486	TLF2931GV33XUMA1	127
TLE7234SE	SP000670264	TLE7234SEXUMA1	111	TLF2931G V50	SP000848484	TLF2931GV50XUMA1	127
TLE7235EM	SP000670336	TLE7235EMXUMA1	111	TLF4277EL	SP000438718	TLF4277ELXUMA1	124
TLE7236EM	SP000670338	TLE7236EMXUMA1	111	TLF50281EL	SP000819928	TLF50281ELXUMA1	129
TLE7236SE	SP000670268	TLE7236SEXUMA1	111	TLI4906K	SP000604306	TLI4906KHTSA1	188
TLE7237SL	SP000670304	TLE7237SLXUMA1	111	TLI4906L	SP000604320	TLI4906LHALA1	188
TLE7238SL	SP000670306	TLE7238SLXUMA1	111	TLI4946-2K	SP000604328	TLV49462KFTSA1	188
TLE7239SL	SP000670308	TLE7239SLXUMA1	111	TLI4946-2L	SP000604336	TLV49462LHALA1	188
TLE7240SL	SP000897440	TLE7240SLXUMA1	111	TLI4946K	SP000604398	TLI4946KHTSA1	188