

Programmable Logic Controller (PLC) - NEW

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Programmable Logic Controller (PLC) - NEW

Ceramic Capacitors

- Diodes
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 - MOSFETs
 - Resistors
 - Rectifiers
 - Optocouplers
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Application Overview

A Programmable Logic Controller (PLC) is an electronic control unit used in industrial applications to monitor and control manufacturing processes and building automation. PLCs are designed for a specific task which needs to be executed in real-time and with a maximum of reliability. To do so, PLCs are combined with a huge number of sensors and actuators. The design is extremely robust to survive the harsh environments such as extreme temperatures, humidity and vibration.

Programmable Logic Controller (PLC) - NEW : Communication, USB Interface

Analog Switch

Product Name	Status	Description	Features	Package	Q-Level
DG2730		2 Port, USB 2.0 High Speed (480 Mbps) Switch	Low Power Consumption	'miniQFN-10	

ESD Protection Diode

Product Name	Status	Description	Features	Package	Q-Level
GL05T to GL24T		ESD Protection Diodes for High-Speed Data Interfaces	Low capacitance	'SOT-23	

Programmable Logic Controller (PLC) - NEW : Communication, Wi-Fi

RF MLCCs

Product Name	Status	Description	Features	Package	Q-Level
QUAD HIFREQ series		Surface Mount Multilayer Ceramic Capacitors	Ultra-stable, high Q dielectric material	0505 - 3838	

Programmable Logic Controller (PLC) - NEW : Output Control, DC/DC

Buffer Capacitor

Product Name	Status	Description	Features	Package	Q-Level
T55		vPolyTan™ Polymer Surface Mount Chip Capacitors	ultra low ESR	J, P, A, T, B, C, Z, V, D	

Current Control

Product Name	Status	Description	Features	Package	Q-Level
WSLP		Power Metal Strip® Resistor	Very high power to foot print size ratio	0603 - 2512	

Rectifier Diode

Product Name	Status	Description	Features	Package	Q-Level
V4PAL45		Surface-Mount TMBS® (Trench MOS Barrier Schottky) Rectifier	Low power losses, high efficiency	SMPA	AECQ-101

Storage Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHLP-4040DZ-01		Low Profile, High Current High Transient Current Spike Capable Shielded, Low DCR	0,19µH...10µH IDC_heat=40A...6.8A	4040	

Switching MOSFET

Product Name	Status	Description	Features	Package	Q-Level
SiR640ADP		N-channel 40V (D-S) MOSFET	Low QG for high efficiency	'PowerPAK SO-8	

Programmable Logic Controller (PLC) - NEW : Output Control, EMI Filter

Filter Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHLP-2525CZ-11		Low Profile, High Current, High Transient Current Spike Capable Shielded, Low DCR	1 μ H...22 μ H, IDC_heat=12.5A...2.9A	2525	

Programmable Logic Controller (PLC) - NEW : Output Control, Motor Drive

Half / Full Bridge

Product Name	Status	Description	Features	Package	Q-Level
SiC788A		50 A VRPower® Integrated Power Stage	Thermally enhanced	PowerPAK® MLP66-40L	

Phase Current Measurement

Product Name	Status	Description	Features	Package	Q-Level
WSLP		Power Metal Strip® Resistor	Very high power to foot print size ratio	0603 - 2512	AEC-Q200

Power Braking Resistor

Product Name	Status	Description	Features	Package	Q-Level
LTO 100		Power Resistor Thick Film Technology	RATED POWER P25 °C=100W	TO-247	

Programmable Logic Controller (PLC) - NEW : Output Control, Polarity Protection

Reverse Polarity Protection

Product Name	Status	Description	Features	Package	Q-Level
Si7461DP		P-Channel MOSFET	Low thermal resistance	PowerPAK SO-8	

Programmable Logic Controller (PLC) - NEW : Power Supply, AC/DC

Bridge Rectifier

Product Name	Status	Description	Features	Package	Q-Level
KBL005...KBL10		Single-Phase Bridge Rectifier	High case dielectric strength of 1500 VRMS	KBL	

Standard Rectifier

Product Name	Status	Description	Features	Package	Q-Level
S4PB, S4PD, S4PG, S4PJ, S4PK, S4PM		High Current Density Surface Mount Rectifiers	Low forward voltage drop	SMPC	AEC-Q101

Programmable Logic Controller (PLC) - NEW : Power Supply, DC/DC

Buck Converter

Product Name	Status	Description	Features	Package	Q-Level
SiC466 , SiC467 , SiC468 , SiC469		microBUCK® with Vin=4.5V up to 60V and different current ratings	current ratings: 2 A, 4 A, 6 A, 10 A	PowerPAK® MLP55-27L	

Buffer Capacitor

Product Name	Status	Description	Features	Package	Q-Level
T55		vPolyTan™ Polymer Surface Mount Chip Capacitors	ultra low ESR	J, P, A, T, B, C, Z, V, DC, Z, V, D	

Programmable Logic Controller (PLC) - NEW : Power Supply, Filter

X Filter Capacitor

Product Name	Status	Description	Features	Package	Q-Level
F1772 X2		Interference Suppression Film Capacitor	Class X2 Radial MKT 310 VAC	15 mm to 37.5 mm lead pitch	AEC-Q200

Y Filter Capacitor

Product Name	Status	Description	Features	Package	Q-Level
YY1 Compact Series		AC Line Rated Ceramic Disc Capacitors	Class X1, 760 VAC, Class Y1, 500 VAC	diameter 7.55 -15.5mm	

Programmable Logic Controller (PLC) - NEW : Power Supply, Power Factor Correction

Optocoupler

Product Name	Status	Description	Features	Package	Q-Level
VOMA618A		Optocoupler, Phototransistor Output, Low Input Current	Isolation test voltage = 3750 VRMS	SOP-4	AEC-Q101

Switching MOSFET

Product Name	Status	Description	Features	Package	Q-Level
SiHH14N65EF		E Series Power MOSFET	with Fast Body Diode	PowerPAK 8x8	

Ultrafast Diode

Product Name	Status	Description	Features	Package	Q-Level
VS-5EWL06FN-M3		Ultralow VF Ultrafast Rectifier	5A FRED Pt	D-PAK	

Programmable Logic Controller (PLC) - NEW : Signal Input, Protection

EMI Filter

Product Name	Status	Description	Features	Package	Q-Level
IHLP-1212AB-11		IHLP® Commercial Inductors, Low DCR Series	0.22μH...1μH, IDC_heat=9.3A...4A	1212	

TVS Diode

Product Name	Status	Description	Features	Package	Q-Level
SMA6F5.0A thru SMA6F130A		Surface-Mount TRANSZORB® Transient Voltage Suppressors	VBR 6.4 V to 159 V PPPM (10 x 1000 μs) 600 W	SlimSMA	

Programmable Logic Controller (PLC) - NEW : Signal Input, Voltage Divider

Precision Resistors

Product Name	Status	Description	Features	Package	Q-Level
ACAS 0606 AT , ACAS 0612 AT Precision		Precision Thin Film Chip Resistor Array	Rated dissipation P70 up to 125 mW per resistor	0606, 0612	