

Flat Panel Display - NEW

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Flat Panel Display - NEW

VISHAY COMPONENTS USED:

- o Power MOSFETS
 - o TVS Protection Diodes
 - o Rectifiers
 - o Tantalum Capacitors
 - o Thin Film Chip Resistors
 - o IR Emitter and Receiver
 - o Inductors/EMI Filters
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Application Overview

Flat panel display for industry uses plant power supply from DC 12 to 24 V. Required the shock resistance, waterproofing and robust design ensuring long-term stable operation even in environments up to high temperature; 60 degree. In recent years, a newest model capable of gesture control like a smart tablet is already released. Possible to complete a safe shutdown sequence at all times as long as sudden power supply down with back-up storage. VISHAY 's broad product line includes components satisfy those industrial requirements and also realize low profile, low heat and high performance while long-term operating. For more information please contact our technical support. [Click here to send an email.](#)

Flat Panel Display - NEW : Buck-up Storage Charger, Low Profile Inductor

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHLE-2525CD-51		Low Profile, High Current Inductors with e-field Shield	0.47uF...22uF, -55 °C to +155 °C	'W,L,H(mm) : 7.2 x 7.1 x 3.23	

Flat Panel Display - NEW : Buck-up Storage Charger, Small-size Buffer Capacitor

Polymer Capacitor

Product Name	Status	Description	Features	Package	Q-Level
T54		vPolyTan™ Polymer Surface Mount Chip Capacitors Low ESR, Leadframeless Molded Type, Hi-Rel Commercial Off-The-Shelf (COTS)	Ultra-low ESR	7343-43	

Flat Panel Display - NEW : Buck-up Storage Charger, Super Capacitor

ENERGY Storage

Product Name	Status	Description	Features	Package	Q-Level
196 HVC ENYCAP#		Hybrid Energy Storage Capacitors	4.2V, 90F	35 x 25 x 10mm	
220 EDLC ENYCAP		Electrical Double Layer Energy Storage Capacitors	2.7V, 8F to 60F	2.3x2.3x2.55mm	AEC-Q200

Flat Panel Display - NEW : Button, SMD LED

LED

Product Name	Status	Description	Features	Package	Q-Level
VLMRGB343..		Multi SMD LED RGB	IF=30mA, VR=12V	PLCC-4	AECQ

Flat Panel Display - NEW : Button, Touch Sensing

Reflective Sensor

Product Name	Status	Description	Features	Package	Q-Level
VCNT2020		Reflective Optical Sensor with Transistor Output	$\lambda_p = 940\text{nm}$,	W,L,H(mm) : 2.5 x 2 x 0.8	

Flat Panel Display - NEW : Connectivity, Ethernet

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHLE-2525CD-51		Low Profile, High Current Inductors with e-field Shield	0.47uF...22uF, -55 °C to +155 °C	W,L,H(mm) : 7.2 x 7.1 x 3.23	

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ...31X RoHS Automotive MLCC		Surface Mount Multilayer Ceramic Chip Capacitors	120pF...1uF; 16V...1000V	0402 to 1812	AEC-Q200

MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si7308DN		N-Channel 60V (D-S) MOSFET	Rdson=58mOhm	Power PAK 1212-8	

Power IC's

Product Name	Status	Description	Features	Package	Q-Level
SIC46x		4.5V-60V input, 100kHz - 2MHz, Synchronous Buck Regulator	Io=2A, 4A, 6A, 10A Peak Eff=98%	W,L,H(mm) : 5.0 x 5.0 x 0.75	

Resistor

Product Name	Status	Description	Features	Package	Q-Level
TNPW		High Stability Thin Film Flat Chip Resistors	4.7Ohm...3MOhm	0402...1210	

Schottky Diode

Product Name	Status	Description	Features	Package	Q-Level
SS2P4		High Current Density Surface Mount Schottky Barrier Rectifi	If=2A; Vf=0.5V; Vrrm=40V	'DO-220AA (SMP)	AEC-Q101

Flat Panel Display - NEW : Connectivity, USB

Analog Switch

Product Name	Status	Description	Features	Package	Q-Level
DG2730		DPDT Analog Switch	2 Port, USB 2.0 High Speed (480 Mbps) Switch	miniQFN-10L	

Flat Panel Display - NEW : Power Supply Management, EMI Filter

Aluminium Capacitor

Product Name	Status	Description	Features	Package	Q-Level
260 CLA-V		Alumimum Capacitor SMD vibration proof high temperature	150...3300uF; 16V...80V	16x16x16 to	AEC-Q200

Custom Magnetics

Product Name	Status	Description	Features	Package	Q-Level
customized EMI filter		customized EMI filter			

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ...31X RoHS Automotive MLCC		Surface Mount Multilayer Ceramic Chip Capacitors for Automotive Applications	120pF...1uF; 16V...1000V	0402 to 1812	AEC-Q200

Flat Panel Display - NEW : Power Supply Management, Programmable Current Limit and Slew Rate Control

Load Switch

Product Name	Status	Description	Features	Package	Q-Level
SiP32419 , SiP32429		Load Switch with Programmable Current Limit and Slew Rate Control	28 V, 56 mohm	DFN10 3 mm x 3 mm	

Flat Panel Display - NEW : Power Supply Management, Reverse Polarity Protection

MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si1021R		P-Channel 60V (D-S) MOSFET	Rdson=4Ohm	SC-75A	

Flat Panel Display - NEW : Power Supply Management, SMPS Buck Converter

Capacitor

Product Name	Status	Description	Features	Package	Q-Level
TP3		Solid Tantalum Surface Mount Chip Capacitors	0.1uF...470uF; 4V...50V	A...E	AEC-Q200

Diode

Product Name	Status	Description	Features	Package	Q-Level
SD103AWS		Small signal schottky diode	If=350mA	SOD-323	AEC-Q101

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IDCP-2218		High Current, Surface Mount Inductors - Non-Shielded	10uH...220uH; 0.35A...1.44A	5.8x4.5x5.2mm	

MOSFET

Product Name	Status	Description	Features	Package	Q-Level
2N7002K		N-Channel 60-V (D-S) MOSFET	Rdson=20hm; Id=300mA	SOT-23	

Flat Panel Display - NEW : Power Supply Management, Transient Protection

Diode

Product Name	Status	Description	Features	Package	Q-Level
MMSZ5225-G to MMSZ5267-G		Small signal Zener diode	Vz 3...75V	SOD-123	AEC-Q101

Flat Panel Display - NEW : Sensor, Auto White Balance

RGBW Sensors

Product Name	Status	Description	Features	Package	Q-Level
VEML3328		RGBCIR Color Sensor With I2C Interface	Provides 16-bit resolution for each channel (R, G, B, C, and IR)	L x W x H(mm): 2.0 x 1.25 x 1.0	
VEML3328SL		RGBCIR Color Sensor With I2C Interface	Provides 16-bit resolution for each channel (R, G, B, C, and IR)	L x W x H(mm): 2.95 x 1.50 x 1.50	

Flat Panel Display - NEW : Sensor, Gesture Control + Ambient Light Sensing

Gesture + AL Sensor

Product Name	Status	Description	Features	Package	Q-Level
VCNL4035X01		Fully Integrated Proximity and Ambient Light Sensor with I2C Interface and Interrupt Function for Gesture Applications	12- / 16- bit PS output data	W,L,H(mm) : 4.0 x 2.36 x 0.75	AEC-Q101

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Product Name	Status	Description	Features	Package	Q-Level
VSMY2940G.RG		High Speed Infrared Emitting Diodes, 940 nm Surface Emitter Technology	$\lambda_p = 940 \text{ nm}$, $I_e=145\text{mW/sr}$	L x W x H(mm): 2.3 x 2.3 x 2.8	

Flat Panel Display - NEW : Sensor, Temperature Sensing

NTC Thermistors

Product Name	Status	Description	Features	Package	Q-Level
NTCS0603E3....T		SMD 0603, Glass Protected NTC Thermistors	TCR ranging from -7 %/K at -40C to -2 %/K at 150C	0603	AEC-Q200

Flat Panel Display - NEW : Signal Conditioning, ESD Protection

Diode

Product Name	Status	Description	Features	Package	Q-Level
GL05T		ESD Protection Diode for High-Speed Data Interfaces	VRWM = 5 V, IPPM = 25 A	SOT-23	AEC-Q101

Flat Panel Display - NEW : Signal Conditioning, Level Shift

MOSFET

Product Name	Status	Description	Features	Package	Q-Level
SQ1470AEH		N-Channel 30V (DS) MOSFET	ID = 1.7 A, RDS(on) = 0.095 Ω @ VGS = 2.5 V	SOT-363	AEC-Q101

Flat Panel Display - NEW : Signal Conditioning 2, ESD Protection

Diode

Product Name	Status	Description	Features	Package	Q-Level
GL05T		ESD Protection Diode for High-Speed Data Interfaces	VRWM = 5 V, IPPM = 25 A	SOT-23	AEC-Q101

Flat Panel Display - NEW : Signal Conditioning 2, Level Shift

MOSFET

Product Name	Status	Description	Features	Package	Q-Level
SQ1470AEH		N-Channel 30V (DS) MOSFET	ID = 1.7 A, RDS(on) = 0.095 Ω @ VGS = 2.5 V Ω	SOT-363	AEC-Q101