

RoHS
Compliant

Multilayer Ceramic Capacitor, 0.1 μ F, 100V, \pm 20%, Radial Leaded, Z5U



02B642

Specifications

Capacitance	: 0.1 μ F
Voltage Rating	: 100V
Capacitance Tolerance	: \pm 20%
Capacitor Terminals	: Radial Leaded
Dielectric Characteristic	: Z5U
Lead Spacing	: 2.54mm
Operating Temperature	: 10°C to +85°C

Multilayer Ceramic Capacitor, 10000pF, 50V, \pm 10%, Radial Leaded, X7R



97M4158

Specifications

Capacitance	: 10000pF
Voltage Rating	: 50V
Capacitance Tolerance	: \pm 10%
Capacitor Terminals	: Radial Leaded
Dielectric Characteristic	: X7R
Lead Spacing	: 2.54mm
Operating Temperature Min	: -55°C
Operating Temperature Max	: 125°C

Electrolytic Capacitor, 10 μ F, 25V, \pm 20%, Radial Leaded, 1000 hours @ 85°C



38K4752

Specifications

Capacitance	: 10 μ F
Voltage Rating	: 25V
Capacitance Tolerance	: \pm 20%
Capacitor Terminals	: Radial Leaded
Lifetime @ Temperature	: 1000 hours @ 85°C
Polarity	: Polar
Diameter	: 4mm
Lead Spacing	: 1.5mm
Height	: 7mm
Operating Temperature	: -40°C to +85°C

Electrolytic Capacitor, 100 μ F, 35V, \pm 20%, Radial Leaded, 2000 hours @ 85°C



96K9198

Features

- Capacitance value ranges from 2.2 μ F to 22000 μ F for 6.3V DC to 100V DC
- Capacitance value ranges from 1 μ F to 470 μ F for 160VDC to 450VDC
- Automotive grade AEC-Q200 compliant
- Tolerance of \pm 20%
- Endurance of 2000h at 85°C
- Available in -40°C to 85°C and -25°C to 85°C temperature ranges based on rated voltage
- High reliability

Specifications

Capacitance	: 100 μ F
Voltage Rating	: 35V
Capacitance Tolerance	: \pm 20%
Capacitor Terminals	: Radial Leaded
Lifetime @ Temperature	: 2000 hours @ 85°C
Polarity	: Polar
Diameter	: 6.3mm
Lead Spacing	: 2.5mm
Height	: 11.2mm
Operating Temperature Min	: -40°C
Operating Temperature Max	: 85°C

Multilayer Ceramic Capacitor, 1 μ F, 50V, \pm 20%, Radial Leaded, X7R



20J7056

Features

- High capacitance with small size
- High reliability

Specifications

Capacitance	: 1 μ F
Voltage Rating	: 50V
Capacitance Tolerance	: \pm 20%
Capacitor Terminals	: Radial Leaded
Dielectric Characteristic	: X7R
Lead Spacing	: 5mm
Operating Temperature Min	: -55°C
Operating Temperature Max	: 125°C

Infrared Emitter, 950nm, 15 Deg., T-1 3/4 (5mm), 800mW/Sr, 800ns



88K1272

Specifications

Peak Wavelength	: 950nm
Angle of Half Intensity	: 15°
Diode Case Style	: T-1 3/4 (5mm)
Radiant Intensity (Ie)	: 800mW/Sr
Rise Time	: 800ns
Fall Time tf	: 800ns
Forward Current If(AV)	: 100mA
Forward Voltage VF Max	: 1.3V
Operating Temperature Min	: -40°C
Operating Temperature Max	: 85°C

140 Pc. Jumper Wire Kit, 22 AWG, Solid, Insulated, Assorted Lengths and Colours, Pre-Stripped, Case



10R0134

Description

The Global Specialties Wire Kit contains 140 pre-cut, pre-stripped and pre-formed #22 gauge insulated solid hook-up wires. The product comes in a compartmentalized plastic case and each group of wires are individually wrapped to prevent mix-ups in shipping.

Specifications

Wire Gauge	: 22AWG
Jacket Color	: Multi-colored
Kit Contents	: 140Pcs of Jumper Wires in Assorted Lengths

LED, Red, Through Hole, T-1 3/4 (5mm), 10mA, 2.1V, 650nm



14N9418

Specifications

LED Colour	: Red
LED Mounting	: Through Hole
LED Case Size	: T-1 3/4 (5mm)
Forward Current If	: 10mA
Forward Voltage	: 2.1V
Wavelength Typ	: 650nm
Luminous Intensity	: 2.8mcd
Viewing Angle	: 45 Deg.
Lens Shape	: Round

Operational Amplifier, Dual, 1MHz, 2, 0.6V/ s, 1.8V to 6V, DIP, 8 pin



26M1280

Specifications

No. of Amplifiers	: 2 Amplifier
Bandwidth	: 1MHz
Slew Rate	: 0.6V/μs
Supply Voltage Range	: 1.8V to 6V
Amplifier Case Style	: DIP
No. of Pins	: 8Pins
Operating Temperature Min	: -40°C
Operating Temperature Max	: 85°C
Automotive Qualification Standard	: AEC-Q100
MSL	: MSL 1 - Unlimited

Phone Audio Connector, Jack, 3.5mm, Silver Plated Contacts, Plastic Body



11M0543

Features

- Silver-plated phosphor bronze springs
- Silver-plated TiCu tip
- 30mΩ contact resistance
- 500VAC dielectric strength
- 5000-cycle operating life

Specifications

Gender	: Jack
Pin Diameter	: 3.5mm
Contact Plating	: Silver Plated Contacts
Connector Body Material	: Plastic Body

Photodiode, 20 Deg., 150pA, 950nm, T-1 (3mm)



82T8676

Features

- High radiant sensitivity
- Fast response times

Specifications

No. of Pins	: 2Pins
Diode Case Style	: T-1 (3mm)
Wavelength of Peak Sensitivity	: 950nm
Angle of Half Sensitivity ±	: 20°
Dark Current	: 150pA
Operating Temperature Min	: -40°C
Operating Temperature Max	: 100°C

Trimpot, Single Turn, Cermet, Top Adjust, 10kΩ, Through Hole, 1 Turns



62J1882

Specifications

Trimpot Type	: Single Turn
Element Material	: Cermet
Adjustment Type	: Top Adjust
Track Resistance	: 10kΩ
Potentiometer Mounting	: Through Hole
No. of Turns	: 1Turns
Power Rating	: 500mW
Resistance Tolerance	: ± 10%
Temperature Coefficient	: ± 100ppm/°C
Trimpot Shape / Size	: 1/4 Inch Square

NTC Thermistor, 10kΩ, Radial Leaded



98K8278

Features

- Accuracy over a wide temperature range
- High stability over a long life
- 500mW Power dissipation
- 500mW Maximum power dissipation (at 55°C)

Specifications

Zero Power Resistance at 25°C	: 10kΩ
Thermistor Mounting	: Through Hole
Beta Value (K)	: 3977K
Thermistor Terminals	: Radial Leaded
Operating Temperature Min	: -40°C
Operating Temperature Max	: 125°C

Bipolar (BJT) Single Transistor, NPN, 30V, 500mW, 800mA, 100hFE



87K2254

Specifications

Transistor Polarity	: NPN
Collector Emitter Voltage V(br)ceo	: 30V
DC Collector Current	: 800mA
Power Dissipation Pd	: 500mW
Transistor Case Style	: TO-18
Transistor Mounting	: Through Hole
No. of Pins	: 3Pins
Transition Frequency ft	: 250MHz
DC Current Gain hFE	: 100hFE
Operating Temperature Max	: 200°C

USB 2.0 A Male to USB 2.0 Micro B Male, 1m, Black



42Y0538

Specifications

Connector Type A	: USB Type A Plug
Connector Type B	: Micro USB Type B Plug
USB Standard	: USB 2.0
Jacket Material	: PVC
Jacket Colour	: Black
Cable Length	: 1m (3.28ft)

Development Board, Arduino Nano, ATmega328 MCU, 14 3.3V I/O, 6 PWM Outputs, USB Mini B



13T9275

Features

- Microcontroller Atmel ATmega168
- Operating voltage is 5V
- Maximum supply voltage 6 to 20V
- Digital I/O pins 14 (of which 6 provide PWM output)
- DC current per I/O pin 40 mA
- DC current for 3.3V pin 50 mA
- Flash memory 16KB of which 2KB is used by Boot loader
- SRAM 1KB, EEPROM 512bytes
- Clock speed 16MHz
- USB Connector type Mini B male

Kit Contents

Order Code	Description	Quantity
02B642	Multilayer Ceramic Capacitor, 0.1µF, 100V, ±20%, Radial Leaded, Z5U	4
97M4158	Multilayer Ceramic Capacitor, 10000pF, 50V, ±10%, Radial Leaded, X7R	4
96K9198	Electrolytic Capacitor, 100µF, 35V, ±20%, Radial Leaded, 2000 hours @ 85°C	2
38K4752	Electrolytic Capacitor, 10µF, 25V, ±20%, Radial Leaded, 1000 hours @ 85°C	2
20J7056	Multilayer Ceramic Capacitor, 1µF, 50V, ±20%, Radial Leaded, X7R	2
88K1272	Infrared Emitter, 950nm, 15 Deg., T-1 3/4 (5mm), 800mW/Sr, 800ns	2
10R0134	140 Pc. Jumper Wire Kit, 22 AWG, Solid, Insulated, Assorted Lengths and Colours, Pre-Stripped, Case	1
14N9418	LED, Red, Through Hole, T-1 3/4 (5mm), 10mA, 2.1V, 650nm	4
26M1280	Operational Amplifier, Dual, 1MHz, 2, 0.6V/ s, 1.8V to 6V, DIP, 8 pin	4
11M0543	Phone Audio Connector, Jack, 3.5mm, Silver Plated Contacts, Plastic Body	1
82T8676	Photodiode, 20 Deg., 150pA, 950nm, T-1 (3mm)	2
62J1882	Trimpot, Single Turn, Cermet, Top Adjust, 10kΩ, Through Hole, 1 Turns	3
98K8278	NTC Thermistor, 10kΩ, Radial Leaded	1
87K2254	Bipolar (BJT) Single Transistor, NPN, 30V, 500mW, 800mA, 100hFE	2
42Y0538	USB 2.0 A Male to USB 2.0 Micro B Male, 1m, Black	1
13T9275	Development Board, Arduino Nano, ATmega328 MCU, 14 3.3V I/O, 6 PWM Outputs, USB Mini B	1

Part Number Table

Description	Part Number
Assortments & Kits	EK307 PACK

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.