RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS

ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

SERIES DESCRIPTION

The ARJM11 series of RJ45 jacks with internal magnetics supports a wide range of configurations in 10/100Base-T, 1000Base-T, 2.5GBase-T and 5GBase-T applications. This series offers the ability to mix and match the physical orientation of the tab, pin layouts, EMI fingers, LED colors and also provides PoE and PoE+ options for 10/100Base-T rates. All configurations in the product series support paste in hole (PIH), a technology that allows through-hole components to be compatible with surface mount reflow assembly processes. All devices are rated to 0°C to 70°C or -40°C to 85°C operating temperature range.

FEATURES

- 10/100Base-T, 1000Base-T, 2.5GBase-T or 5GBase-T
- Supports PoE and PoE+ (10/100Base-T)
- Compatible with surface mount with Paste in hole (PIH) technology
- -40°C to 85°C or 0°C to 70°C operating temperature range
- Combinations of green, yellow, orange, and red LED

APPLICATIONS

- Internet of Things (Ethernet)
- IP cameras, surveillance, and phone
- Access points
- Industrial computers
- Network interface cards (NIC)
- Industrial process control
- Networking and communications
- Broadcast video
- Storage
- Set top box and video
- Power over Ethernet (PoE)
- Test and Measurement
- Multifunction Printers (MFP)

OPTIONS AND PART IDENTIFICATION

ARJM11 ☐☐-☐-☐☐-☐☐☐☐☐

Mechanical	Pin Layout	Schematics	Left LED color	Right LED color	Operating Temperature	Soldering Method	Gold Plating	Packaging
A: Tab down, w/ EMI Fingers	1: for A and B 3: for A and B	009: 100 Base-T	N: No LED	N: No LED	C: 0 ~ 70 °C	W: Wave**	2: 6u”	Blank: Bulk
B: Tab down, w/o EMI Fingers		114: 100 Base-T POE*	A: Green	A: Green	E: -40 ~ 85 °C	R: Reflow		T: Tape&Reel**
C: Tab up, w/ EMI Fingers*	7: for C and D	104: 100 Base-T POE+*	B: Yellow	B: Yellow				
D: Tab up, w/o EMI Fingers*		502: 1000 Base-T	K: Green/Orange	K: Green/Orange				
		805: 2.5G Base-T Option 1						
		809: 2.5G Base-T Option 2						
		811: 5G Base-T						

(Please See Mechanical Dimension Section for Details)

(Please See Schematics Section for Details)

Example Configurations

ARJM11 A1-009 -AB- C W 2
(Tab down, w/ EMI, 100Base-T, w/LED G/Y, commercial grade, 6µ” Gold, Tray Packaging)
ARJM11 D7-502 -NN- E R 2 - T
(Tab up, w/o EMI, 1000Base-T, no LED, industrial grade, reflow soldering, 6µ” Gold, Tape & Reel)

*114 and 104 schematics are only available with tab up RJ45 options C and D
**Wave solderable product is only available in bulk/tray packaging

Please see the tables at the end of the document for the 216 standard part numbers. For each standard part number, MOQ is as low as 700pcs. For additional configuration, NRE or larger MOQs may apply.

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STANDARD SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Turn Ratio (±3%)		1CT:1CT			**100kHz, 0.1V**
Inductance	350			**µH**	**100kHz, 0.1V, 8mADC**
	200				**For 2.5G Base-T only**
	160				**For 5G Base-T only**
Leakage Inductance			0.5	**µH**	**100kHz, 0.1V**
			0.3		**For 2.5G Base-T and 5G Base-T**
DC Resistance			1.5	**Ω**	
Hipot	2250			**VDC**	**1mA Max Complies with IEEE 802.3**
Operating Temperature	-40		+85	**°C**	**See options**
Storage Temperature	-40		+85	**°C**	
100 Base-T					
Insertion Loss	-1.1			**dB**	**0.5-100MHz**
Return Loss			-18	**dB**	**0.5-30MHz**
			-18+20log(f/30)*		**30.1-60MHz**
			-12		**60.1-80MHz**
Crosstalk			-35	**dB**	**0.5-40MHz**
			-33+20log(f/50)*		**40.1-100MHz**
CMRR			-30	**dB**	**0.5-100MHz**
1000 Base-T					
Insertion Loss	-1.1			**dB**	**0.5-100MHz**
Return Loss			-18	**dB**	**0.5-40MHz**
			-12+20log(f/80)*		**40.1-100MHz**
Crosstalk			-35	**dB**	**0.5-40MHz**
			-33+20log(f/50)*		**40.1-100MHz**
CMRR			-30	**dB**	**0.5-100MHz**
2.5G Base-T					
Insertion Loss	-0.5			**dB**	**1-50MHz**
	-1.0				**50-125MHz**
Return Loss			-20	**dB**	**1-40MHz**
			-20+15log(f/40)*		**40-200MHz**
Crosstalk			-30	**dB**	**25-125MHz**
5G Base-T					
Insertion Loss	-0.5				1-50MHz
	-1.0			**dB**	50-125MHz
	-2.0				125-250MHz
Return Loss			-20		1-40MHz
			-20+15log(f/40)*	**dB**	40-250MHz
Crosstalk			-30		1-125MHz
			-25	**dB**	125-250MHz
POE					
Balanced DC line current			350	**mA**	@57VDC continuous
			500		@57VDC for 200ms
POE+					
Balanced DC line current			600	**mA**	@57VDC continuous
			720		@57VDC for 200ms

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MSL = 1

MATERIALS

1. **Housing:**
   Material:
   PBT, UL94V-0 (for wave soldering option)
   LCP, UL94V-0 (for IR reflow soldering option)
   Standard Color: Black

2. **Insert:**
   Material:
   PBT, UL94V-0 (for wave soldering option)
   LCP, UL94V-0 (for IR Reflow soldering option)
   Contact Material: Phosphor Bronze
   Plating (1): Nickel
   Plating (2): Gold, 6u”

3. **Metal Shell:**
   Material: Brass
   Plating (1): Nickel

4. **Contact Pin:**
   Material: Phosphor Bronze
   Plating (1): Nickel
   Plating (2): 100%Sn

5. **LED:**
   Material: Diffused Epoxy Lens, 0.5x0.5mm Carbon Steel wireframe leads

Note: Abracon LLC will not alter any material composition, without prior written notification.

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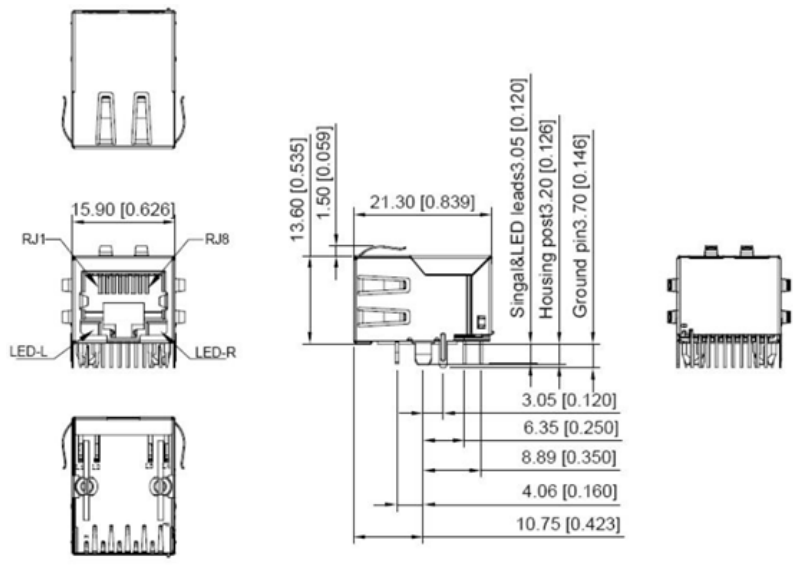
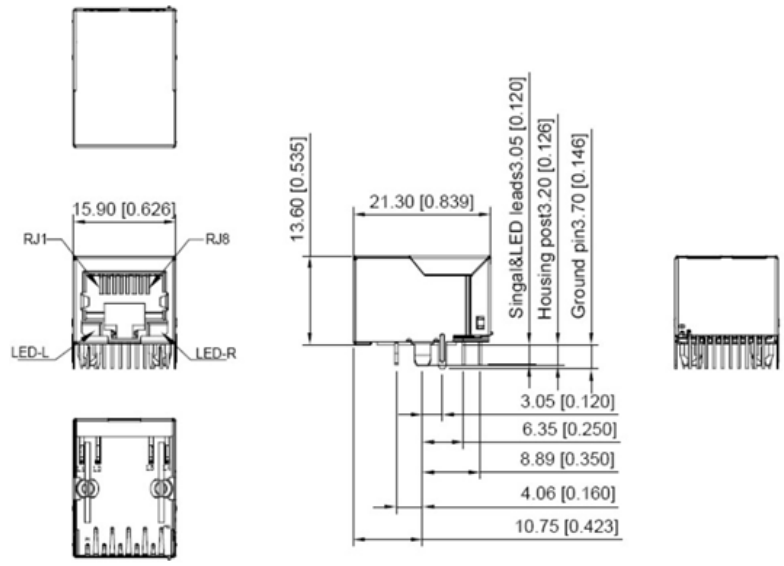
MECHANICAL DRAWINGS

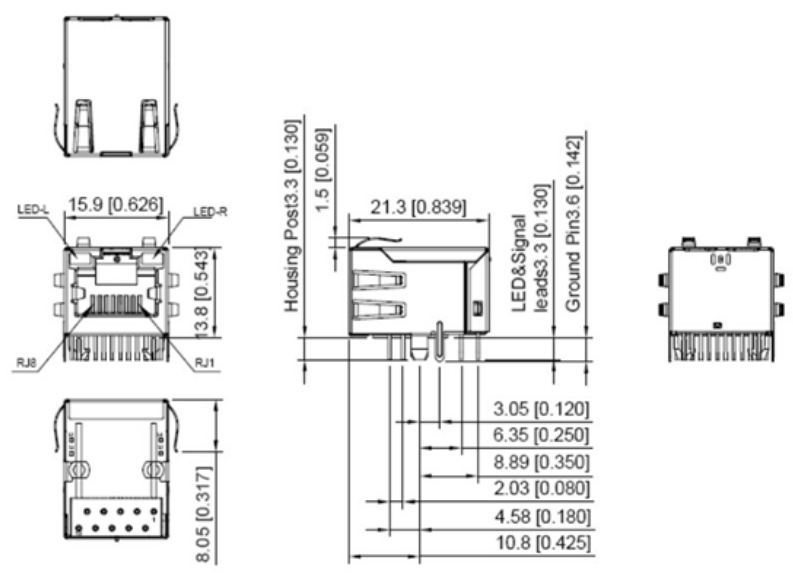
A: Tab down, w/ EMI Fingers



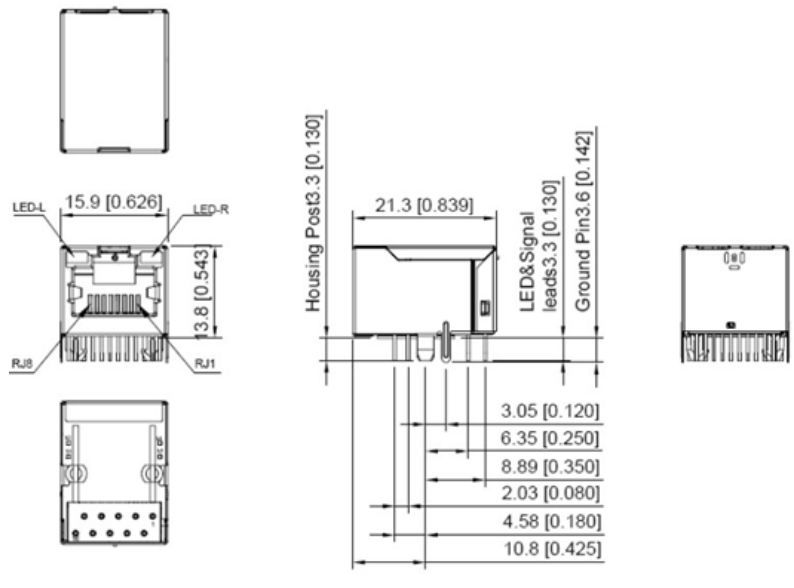
B: Tab down, w/o EMI Fingers



C: Tab up, w/ EMI Fingers



D: Tab up, w/o EMI Fingers



Dimensions: mm[inch] (Unless otherwise specified, all tolerances are ±0.25[0.010])

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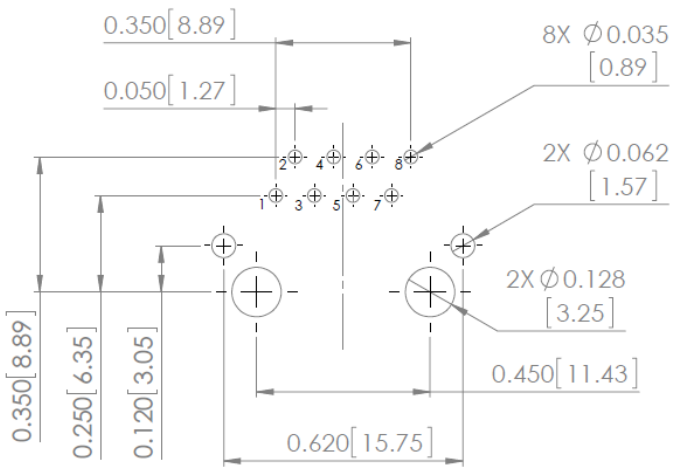
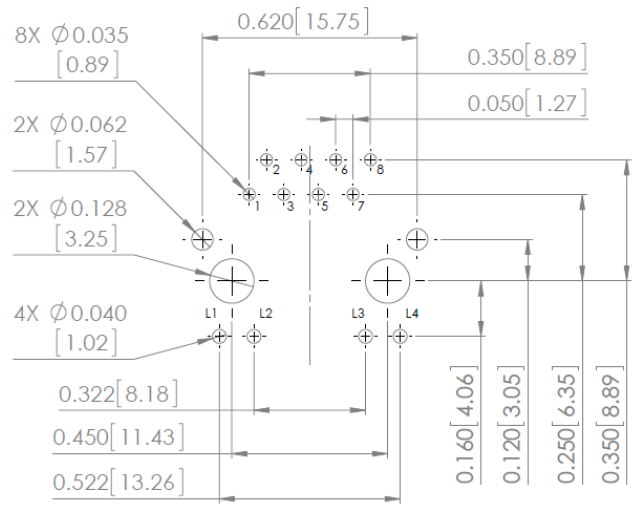
RECOMMENDED LANDING PATTERNS

Pin Layout = 1 (Horizontal LEDs/ No LEDs **only available for mechanical options A & B)

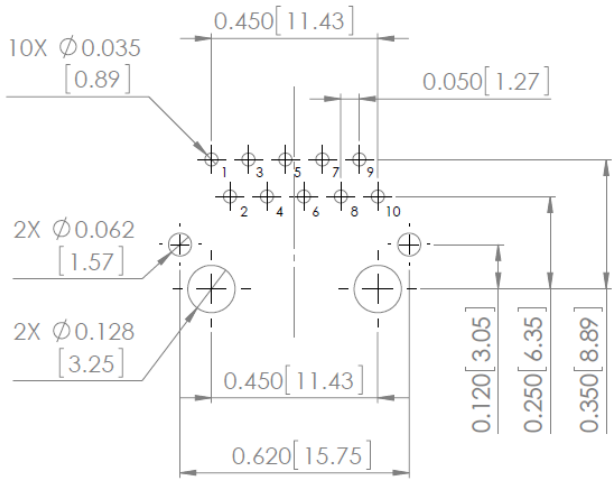
8 pins, no LED
For 100 Base-T



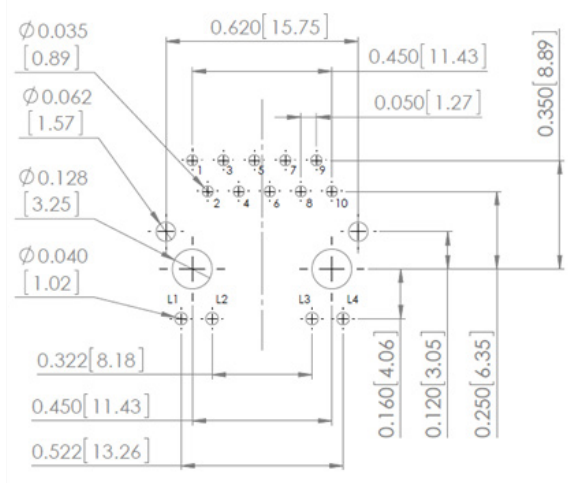
8 pins, with LED
For 100 Base-T



10 pins, no LED
For 100&PoE/1000/2.5G/5G Base-T



10 Pins, w/ LED
For 100&PoE/1000/2.5G/5G Base-T



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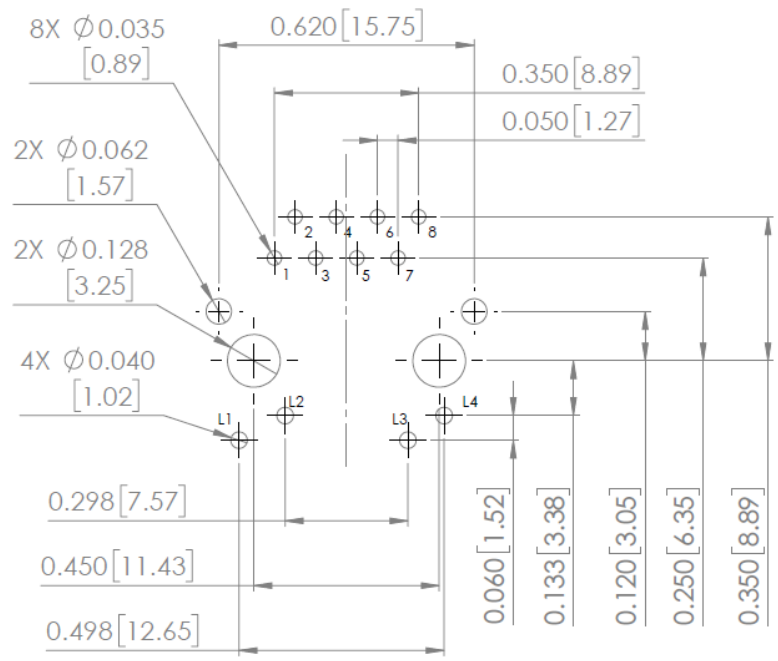
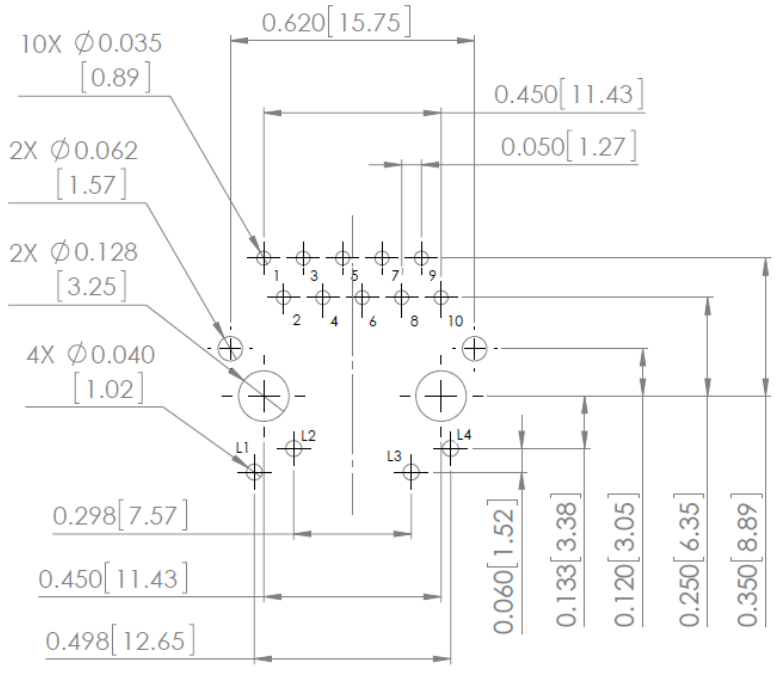
RECOMMENDED LANDING PATTERNS

Pin Layout = 3 (Diagonal LEDs **only available for mechanical drawing A & B)

8 pins, w/ LED
For 100 Base-T



10 pins, w/ LED
For 100&PoE/1000/2.5G/5G Base-T



Dimensions: mm[inch]

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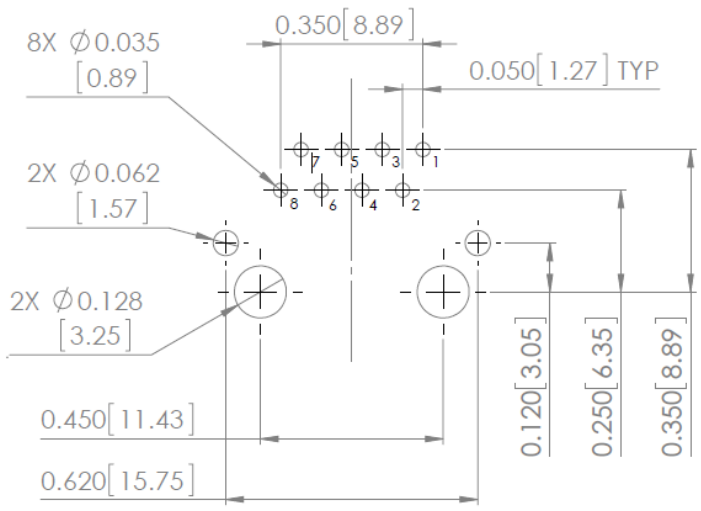
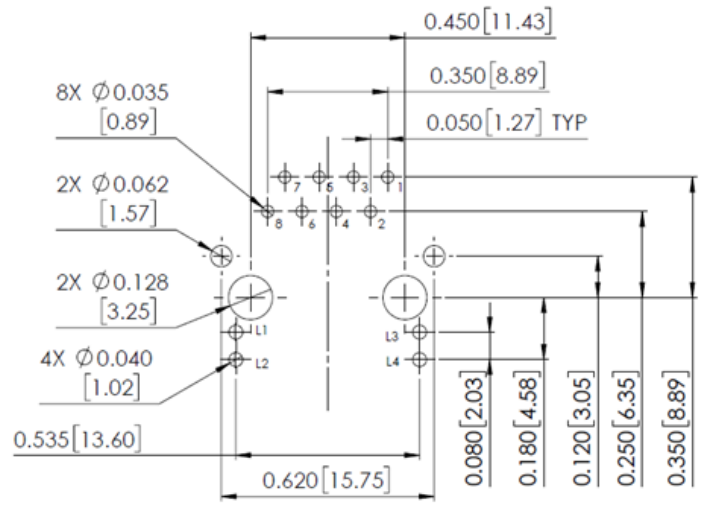
RECOMMENDED LANDING PATTERNS

Pin Layout = 7 (Vertical LEDs/ No LEDs **only available for mechanical options C & D)

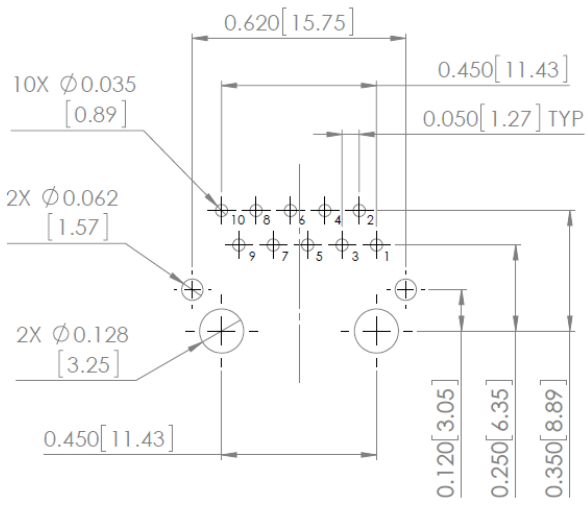
8 pins, no LED
For 100 Base-T



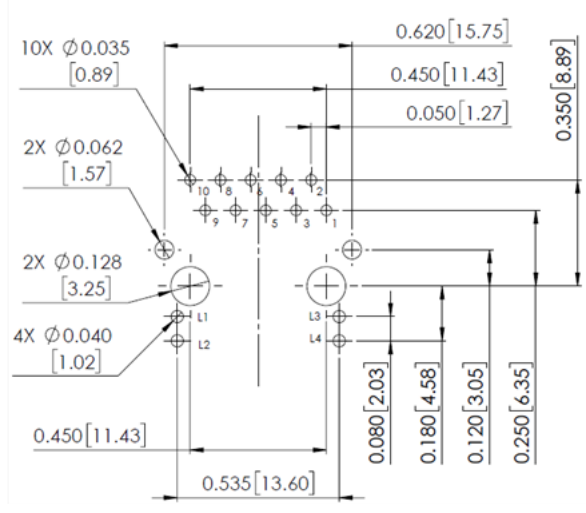
8 pins, with LED
For 100 Base-T



10 pins, no LED
For 100&PoE/1000/2.5G/5G Base-T



10 Pins, with LED
For 100&PoE/1000/2.5G/5G Base-T



Dimensions: mm[inch]

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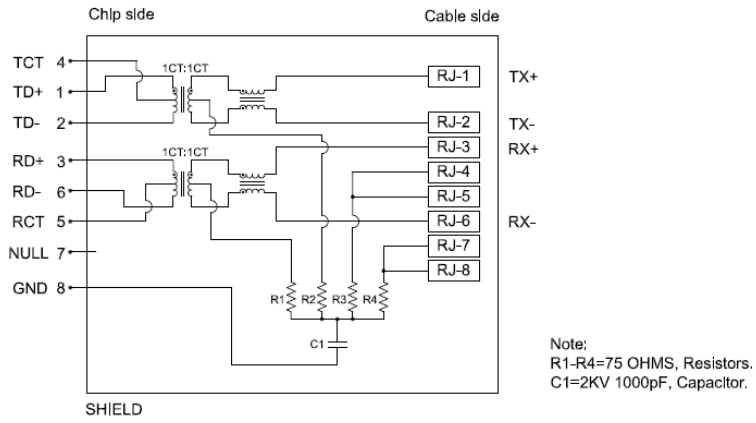
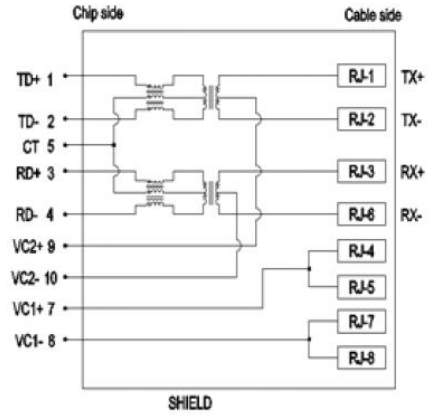
SCHEMATICS

009 (100 Base-T)



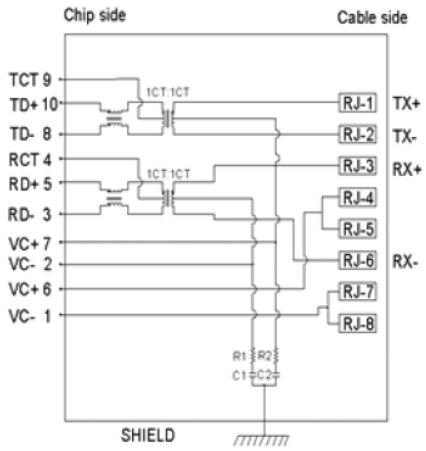
Note:
R1-R4=75 OHMS, Resistors.
C1=2KV 1000pF, Capacitor.

104 (100 Base-T & PoE+)



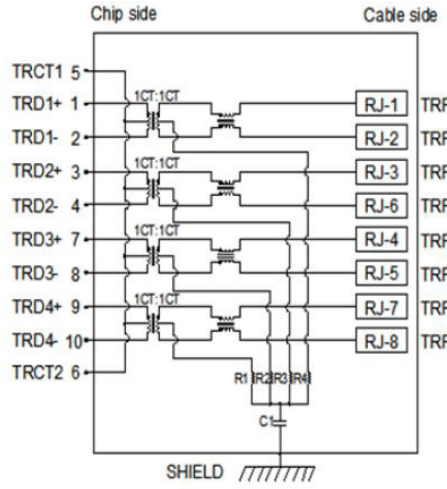
Note:
Balanced DC line current:
600 mA Max@57VDC Continuous
720 mA Max@57VDC for 200 milliseconds

114 (100 Base-T & PoE)



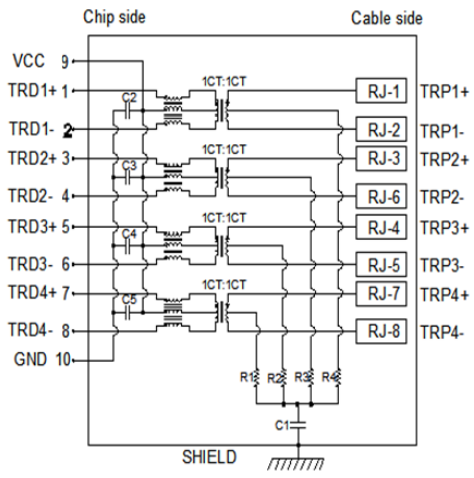
Note:
R1-R2=75 OHMS, Resistors.
C1-C2=2KV 1000pF, Capacitor.
Balanced DC line Current :
350mA Max @57 VDC Continuous ;
500mA Max @57 VDC for 200 Milliseconds

502 (1000 Base-T)



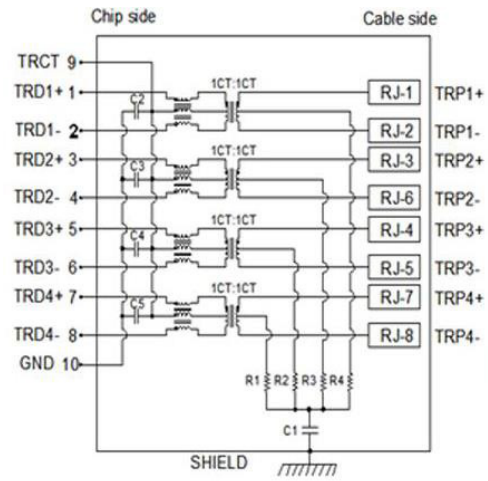
Note:
R1-R4=75 OHMS, Resistors.
C1=2KV 1000pF, Capacitor.

805 (2.5G Base-T)



Note:
R1-R4=75 OHMS, Resistors.
C1=2KV 1000pF, Capacitor.
C2-C5=100V 100nF, Capacitor.

809 (2.5G Base-T)



Note:
R1-R4=75 OHMS, Resistors.
C1=3KV 1000pF, Capacitor.
C2-C5=100V 100nF, Capacitor.

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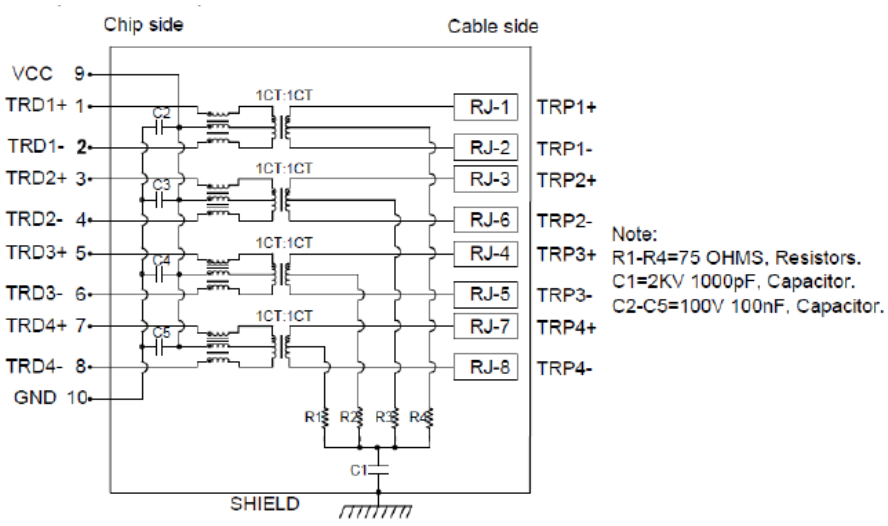
SCHEMATICS

811 (5G Base-T)



Note:
R1-R4=75 OHMS, Resistors.
C1=2KV 1000pF, Capacitor.
C2-C5=100V 100nF, Capacitor.

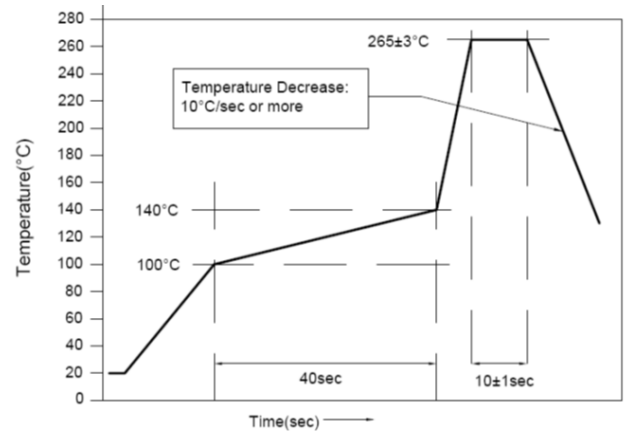
Contact Abracon for more custom configuration options.

*Note: If two LED colors are selected for left (right) side, for the first color, L1(L3) is anode and L2(L4) is cathode; for the second color, L1(L3) is cathode and L2(L4) is anode.
For example, if J (Green/Yellow) is selected for left LED, L1 to L2 is Green; L2 to L1 is Yellow.

LED SPECIFICATION. @20mA Forward Current

Color	Green	Yellow	Orange	Red
Wavelength	565nm Typ	585nm Typ	605nm Typ	635nm Typ
Forward Voltage	2.2V Typ	2.1V Typ	2.1V Typ	1.8V Typ

WAVE SOLDERING PROFILE



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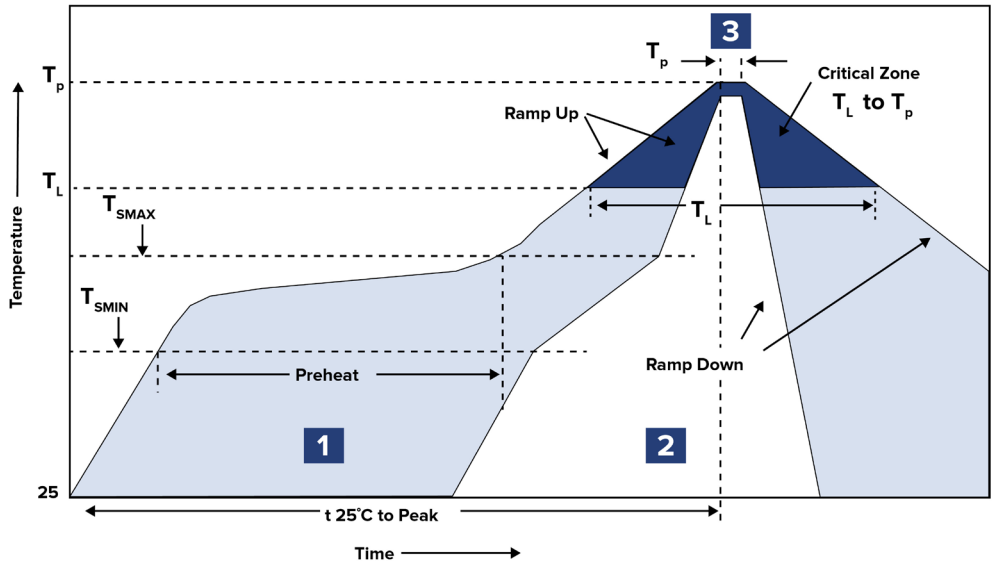
RoHS/RoHS II Compliant
MSL = 1

REFLOW SOLDERING PROFILE

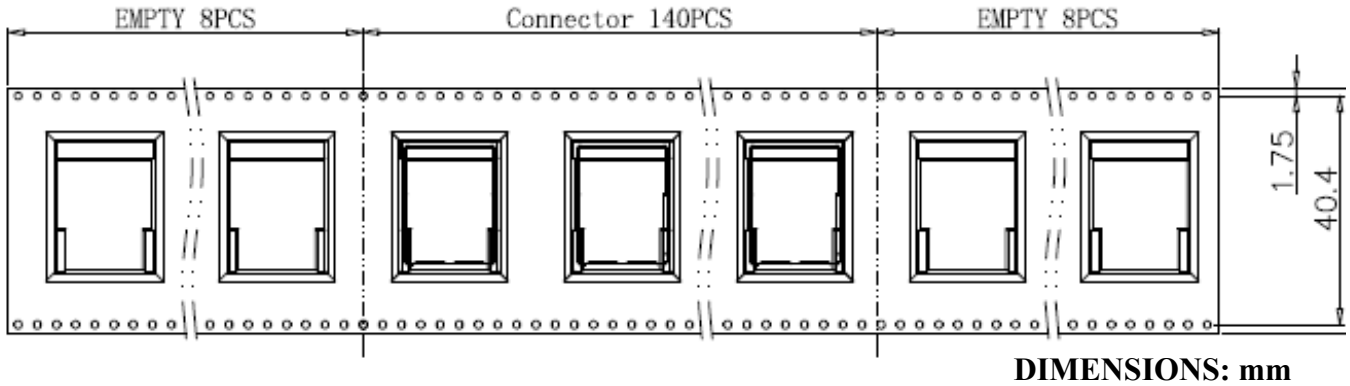


Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} to T_{SMAX} 150°C to 180°C	120 to 180 sec.
2	Reflow	T_L 217°C	60 to 150 sec.
3	Peak heat	T_P 245°C	5 sec. MAX

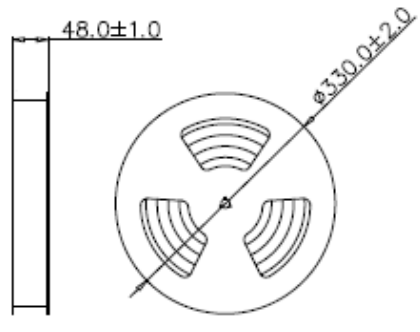
PACKING: TRAY & TAPE AND REEL

Bulk/Tray: 70pcs/tray, 700pcs/carton)
Tray Size: L315.0 x W200.0 mm, Transparent PET

Tape & Reel (70pcs/reel, 350pcs/carton)



DIMENSIONS: mm



DIMENSIONS: mm

ABRACON LLC

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REVISED: 04.22.2019

ABRACON IS
ISO9001-2015
CERTIFIED

RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS

ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

100 BASE-T STANDARD PART NUMBERS

Part Number	Speed	Tab Direction	LED	Operating Temperature	Soldering Method
ARJM11C7-009-NN-CW2	100 Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-009-NN-EW2	100 Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-009-NN-ER2-T	100 Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-009-AB-CW2	100 Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-009-AB-EW2	100 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-009-AB-ER2-T	100 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-009-KB-CW2	100 Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-009-KB-EW2	100 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-009-KB-ER2-T	100 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-009-NN-CW2	100 Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-009-NN-EW2	100 Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-009-NN-ER2-T	100 Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-009-AB-CW2	100 Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-009-AB-EW2	100 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-009-AB-ER2-T	100 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-009-KB-CW2	100 Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-009-KB-EW2	100 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-009-KB-ER2-T	100 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-009-NN-CW2	100 Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11A1-009-NN-EW2	100 Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11A1-009-NN-ER2-T	100 Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11A1-009-AB-CW2	100 Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-009-AB-EW2	100 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-009-AB-ER2-T	100 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-009-KB-CW2	100 Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-009-KB-EW2	100 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-009-KB-ER2-T	100 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-009-NN-CW2	100 Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11B1-009-NN-EW2	100 Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11B1-009-NN-ER2-T	100 Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11B1-009-AB-CW2	100 Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-009-AB-EW2	100 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-009-AB-ER2-T	100 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-009-KB-CW2	100 Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-009-KB-EW2	100 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-009-KB-ER2-T	100 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow

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RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS

ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

100 BASE-T POE AND POE+ STANDARD PART NUMBERS

Part Number	Speed	Tab Direction	LED	Operating Temperature	Soldering Method
ARJM11C7-114-NN-CW2	100 Base-T POE	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-114-NN-EW2	100 Base-T POE	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-114-NN-ER2-T	100 Base-T POE	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-114-AB-CW2	100 Base-T POE	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-114-AB-EW2	100 Base-T POE	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-114-AB-ER2-T	100 Base-T POE	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-114-KB-CW2	100 Base-T POE	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-114-KB-EW2	100 Base-T POE	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-114-KB-ER2-T	100 Base-T POE	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-114-NN-CW2	100 Base-T POE	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-114-NN-EW2	100 Base-T POE	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-114-NN-ER2-T	100 Base-T POE	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-114-AB-CW2	100 Base-T POE	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-114-AB-EW2	100 Base-T POE	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-114-AB-ER2-T	100 Base-T POE	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-114-KB-CW2	100 Base-T POE	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-114-KB-EW2	100 Base-T POE	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-114-KB-ER2-T	100 Base-T POE	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-104-NN-CW2	100 Base-T POE+	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-104-NN-EW2	100 Base-T POE+	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-104-NN-ER2-T	100 Base-T POE+	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-104-AB-CW2	100 Base-T POE+	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-104-AB-EW2	100 Base-T POE+	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-104-AB-ER2-T	100 Base-T POE+	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-104-KB-CW2	100 Base-T POE+	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-104-KB-EW2	100 Base-T POE+	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-104-KB-ER2-T	100 Base-T POE+	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-104-NN-CW2	100 Base-T POE+	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-104-NN-EW2	100 Base-T POE+	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-104-NN-ER2-T	100 Base-T POE+	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-104-AB-CW2	100 Base-T POE+	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-104-AB-EW2	100 Base-T POE+	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-104-AB-ER2-T	100 Base-T POE+	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-104-KB-CW2	100 Base-T POE+	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-104-KB-EW2	100 Base-T POE+	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-104-KB-ER2-T	100 Base-T POE+	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow

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RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS

ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

1000 BASE-T STANDARD PART NUMBERS

Part Number	Speed	Tab Direction	LED	Operating Temperature	Soldering Method
ARJM11C7-502-NN-CW2	1000 Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-502-NN-EW2	1000 Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-502-NN-ER2-T	1000 Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-502-AB-CW2	1000 Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-502-AB-EW2	1000 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-502-AB-ER2-T	1000 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-502-KB-CW2	1000 Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-502-KB-EW2	1000 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-502-KB-ER2-T	1000 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-502-NN-CW2	1000 Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-502-NN-EW2	1000 Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-502-NN-ER2-T	1000 Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-502-AB-CW2	1000 Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-502-AB-EW2	1000 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-502-AB-ER2-T	1000 Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-502-KB-CW2	1000 Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-502-KB-EW2	1000 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-502-KB-ER2-T	1000 Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-502-NN-CW2	1000 Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11A1-502-NN-EW2	1000 Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11A1-502-NN-ER2-T	1000 Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11A1-502-AB-CW2	1000 Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-502-AB-EW2	1000 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-502-AB-ER2-T	1000 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-502-KB-CW2	1000 Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-502-KB-EW2	1000 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-502-KB-ER2-T	1000 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-502-NN-CW2	1000 Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11B1-502-NN-EW2	1000 Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11B1-502-NN-ER2-T	1000 Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11B1-502-AB-CW2	1000 Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-502-AB-EW2	1000 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-502-AB-ER2-T	1000 Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-502-KB-CW2	1000 Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-502-KB-EW2	1000 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-502-KB-ER2-T	1000 Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow

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ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

2.5 BASE-T STANDARD PART NUMBERS

Part Number	Speed	Tab Direction	LED	Operating Temperature	Soldering Method
ARJM11C7-805-NN-CW2	2.5G Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-805-NN-EW2	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-805-NN-ER2-T	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-805-AB-CW2	2.5G Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-805-AB-EW2	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-805-AB-ER2-T	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-805-KB-CW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-805-KB-EW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-805-KB-ER2-T	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-805-NN-CW2	2.5G Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-805-NN-EW2	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-805-NN-ER2-T	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-805-AB-CW2	2.5G Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-805-AB-EW2	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-805-AB-ER2-T	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-805-KB-CW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-805-KB-EW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-805-KB-ER2-T	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-805-NN-CW2	2.5G Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11A1-805-NN-EW2	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11A1-805-NN-ER2-T	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11A1-805-AB-CW2	2.5G Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-805-AB-EW2	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-805-AB-ER2-T	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-805-KB-CW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-805-KB-EW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-805-KB-ER2-T	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-805-NN-CW2	2.5G Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11B1-805-NN-EW2	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11B1-805-NN-ER2-T	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11B1-805-AB-CW2	2.5G Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-805-AB-EW2	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-805-AB-ER2-T	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-805-KB-CW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-805-KB-EW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-805-KB-ER2-T	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow

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RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS

ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

5G BASE-T STANDARD PART NUMBERS

Part Number	Speed	Tab Direction	LED	Operating Temperature	Soldering Method
ARJM11C7-811-NN-CW2	5G Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-811-NN-EW2	5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-811-NN-ER2-T	5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-811-AB-CW2	5G Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-811-AB-EW2	5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-811-AB-ER2-T	5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-811-KB-CW2	5G Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-811-KB-EW2	5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-811-KB-ER2-T	5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-811-NN-CW2	5G Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-811-NN-EW2	5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-811-NN-ER2-T	5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-811-AB-CW2	5G Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-811-AB-EW2	5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-811-AB-ER2-T	5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-811-KB-CW2	5G Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-811-KB-EW2	5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-811-KB-ER2-T	5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-811-NN-CW2	5G Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11A1-811-NN-EW2	5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11A1-811-NN-ER2-T	5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11A1-811-AB-CW2	5G Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-811-AB-EW2	5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-811-AB-ER2-T	5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-811-KB-CW2	5G Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-811-KB-EW2	5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-811-KB-ER2-T	5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-811-NN-CW2	5G Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11B1-811-NN-EW2	5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11B1-811-NN-ER2-T	5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11B1-811-AB-CW2	5G Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-811-AB-EW2	5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-811-AB-ER2-T	5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-811-KB-CW2	5G Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-811-KB-EW2	5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-811-KB-ER2-T	5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow

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For terms and conditions of sales visit:
www.abracon.com

REVISED: 04.22.2019

ABRACON IS
ISO9001-2015
CERTIFIED

RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS

ARJM11

21.30 x 15.90 x 13.60mm
21.30 x 15.90 x 13.80mm
UL Certification Number: E503350
RoHS/RoHS II Compliant
MSL = 1

2.5 BASE-T STANDARD PART NUMBERS CONT.

Part Number	Speed	Tab Direction	LED	Operating Temperature	Soldering Method
ARJM11C7-809-NN-CW2	2.5G Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11C7-809-NN-EW2	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11C7-809-NN-ER2-T	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11C7-809-AB-CW2	2.5G Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-809-AB-EW2	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-809-AB-ER2-T	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11C7-809-KB-CW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11C7-809-KB-EW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11C7-809-KB-ER2-T	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-809-NN-CW2	2.5G Base-T	Tab Up	No LED	0°C ~ 70°C	Wave
ARJM11D7-809-NN-EW2	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Wave
ARJM11D7-809-NN-ER2-T	2.5G Base-T	Tab Up	No LED	-40°C ~ 85°C	Reflow
ARJM11D7-809-AB-CW2	2.5G Base-T	Tab Up	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-809-AB-EW2	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-809-AB-ER2-T	2.5G Base-T	Tab Up	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11D7-809-KB-CW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11D7-809-KB-EW2	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11D7-809-KB-ER2-T	2.5G Base-T	Tab Up	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-809-NN-CW2	2.5G Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11A1-809-NN-EW2	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11A1-809-NN-ER2-T	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11A1-809-AB-CW2	2.5G Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-809-AB-EW2	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-809-AB-ER2-T	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11A1-809-KB-CW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11A1-809-KB-EW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11A1-809-KB-ER2-T	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-809-NN-CW2	2.5G Base-T	Tab Down	No LED	0°C ~ 70°C	Wave
ARJM11B1-809-NN-EW2	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Wave
ARJM11B1-809-NN-ER2-T	2.5G Base-T	Tab Down	No LED	-40°C ~ 85°C	Reflow
ARJM11B1-809-AB-CW2	2.5G Base-T	Tab Down	Left: G, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-809-AB-EW2	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-809-AB-ER2-T	2.5G Base-T	Tab Down	Left: G, Right: Y	-40°C ~ 85°C	Reflow
ARJM11B1-809-KB-CW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	0°C ~ 70°C	Wave
ARJM11B1-809-KB-EW2	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Wave
ARJM11B1-809-KB-ER2-T	2.5G Base-T	Tab Down	Left: G/O, Right: Y	-40°C ~ 85°C	Reflow

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REVISED: 04.22.2019

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LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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