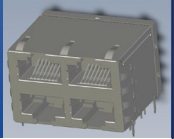


RJ45, 2x2 Multi Port, 10/100/1G Base-T Magnetics Module



ARJM22 Series

Request Samples



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31.2 x 28.4 x 25.8 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- IEEE 802.3 compliant and UL certified
- High performance integrated magnetics for EMI suppression
- Suitable for CAT5 and CAT6 UTP cabling
- RoHS peak wave solder temperature rating 265°C
- Extended operating temperature -40 to 85°C option

Applications

- Multiport 10/100/1G Base-T LAN
- Network Interface Cards
- High Density Data Center Switches
- NAS / Expander storage
- Data Center Servers, Routers
- Media converters

Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Turn Ratio (±3%)	1CT:1CT				100kHz, 0.1V
Inductance	350			μH	100kHz, 0.1V, 8mADC
Hipot	1500			Vrms	1mA Max Complies with IEEE 802.3
Operating Temperature	-40		+85	°C	See options
Storage Temperature	-40		+85	°C	
100 Base-T					
Insertion Loss	-1.0			dB	1-65MHz
Return Loss			-20	dB	1-10MHz
			-16		10-30MHz
			-12		30-60MHz
			-10		60-100MHz
			-40		1-30MHz
Crosstalk			-35	dB	30-60MHz
			-30		60-100MHz
			-30		1-50MHz
CMRR			-20	dB	50-100MHz
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

$\dagger$ f represents the test frequency specified in MHz

ARJM24 Series is RoHS/RoHS II Compliant

MSL level: 1

UL Certification Number: E503350



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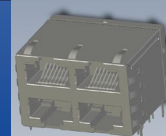
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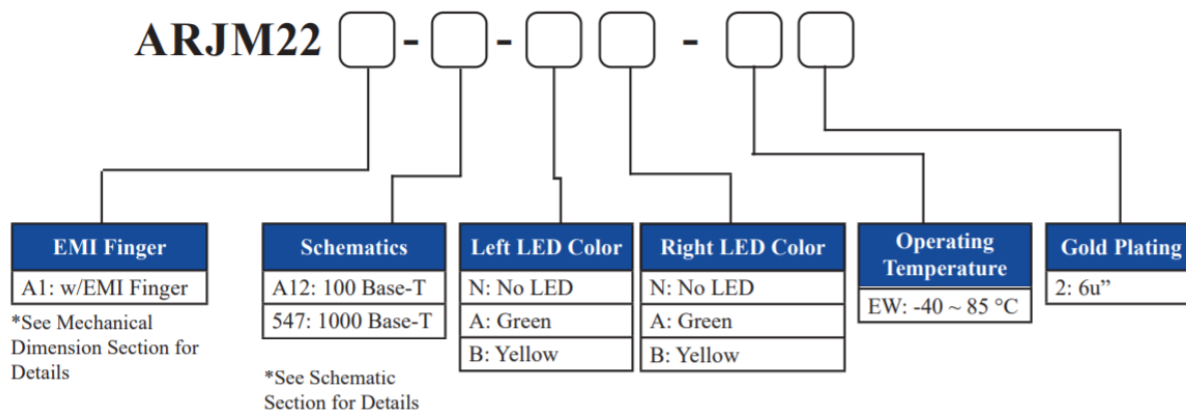


31.2 x 28.4 x 25.8 mm

RoHS/RoHS II Compliant

MSL Level = 1

Part Number Identification



Available Part Numbers

Part Number	Speed	Tab Direction	LED (Left: Right)	Operating Temperature	Solder Method	Gold Plating
ARJM22A1-547-AB-EW2	1000 Base-T	Up/Down	G: Y	-40°C ~ 85°C	Wave	6μ"
ARJM22A1-547-NN-EW2	1000 Base-T	Up/Down	none	-40°C ~ 85°C	Wave	6μ"
ARJM22A1-A12-BA-EW2	10/100 Base-T	Up/Down	Y: G	-40°C ~ 85°C	Wave	6μ"



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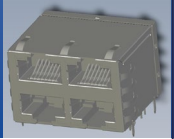
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31.2 x 28.4 x 25.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Materials

1. Housing:

Material:
PBT, UL94V-0
Standard Color: Black

2. Contact Pin:

Material: Phosphor Bronze
Plating (1): Nickel
Plating (2): 100%Sn

3. Insert:

Material:
PBT, UL94V-0

Contact Material: Phosphor Bronze
Plating (1): Nickel
Plating (2): Gold, 6u"

4. LED:

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

5. Metal Shell:

Material: Brass
Plating (1): Nickel

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

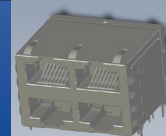


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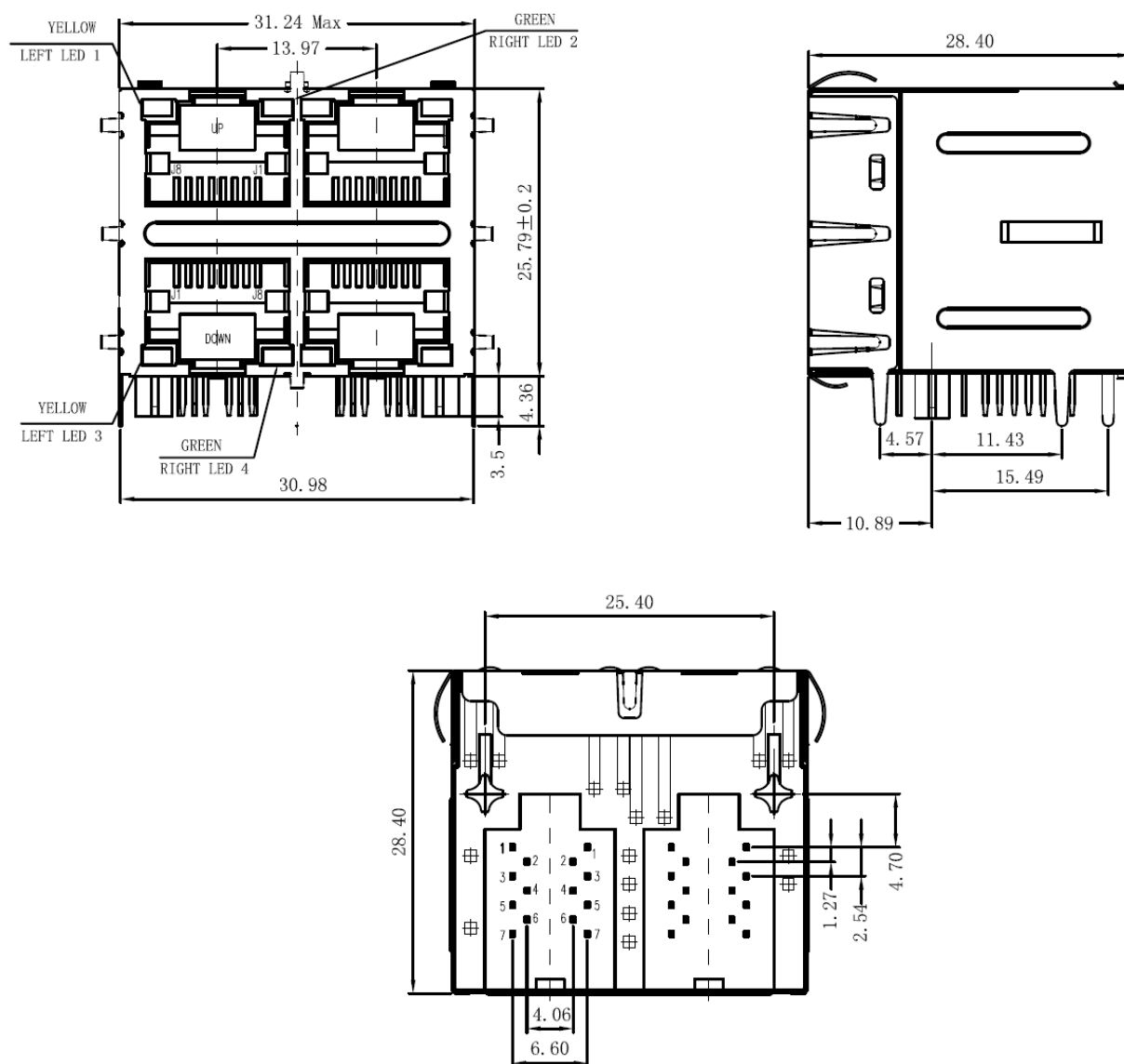
31.2 x 28.4 x 25.8 mm

RoHS/RoHS II Compliant

MSL Level = 1

Mechanical Specifications

A12: 2 x 2, w/ EMI Fingers



Dimensions are in mm. Unless otherwise noted, tolerance is ± 0.25 mm

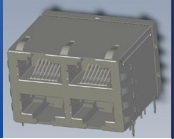


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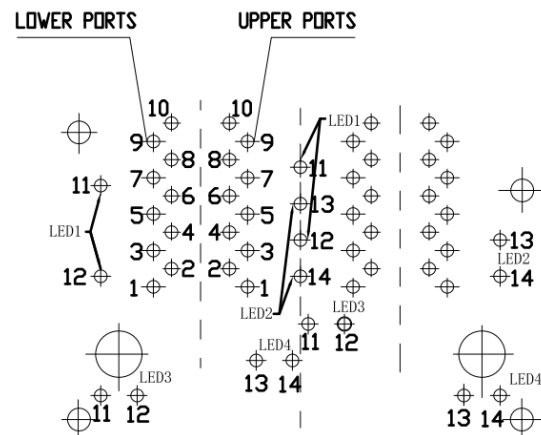
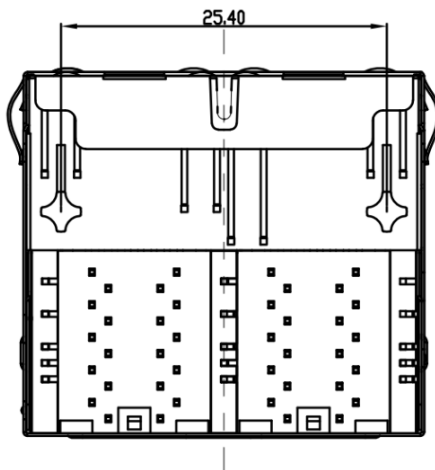
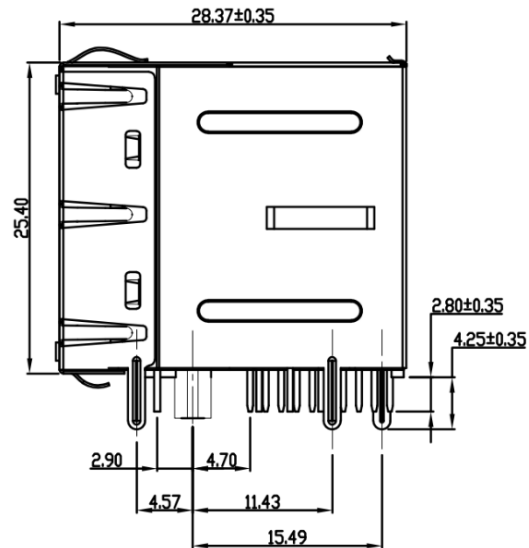
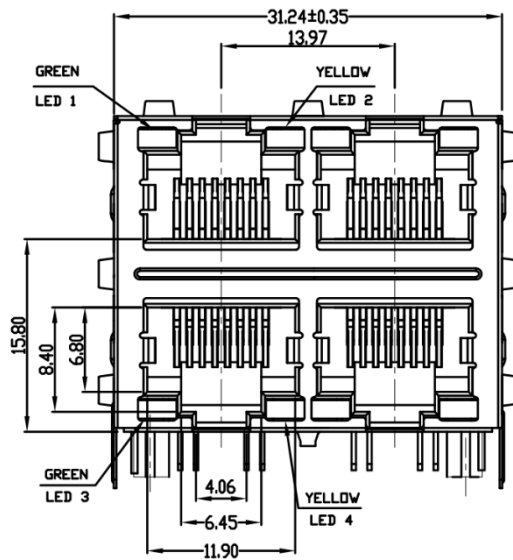
Check Inventory



31.2 x 28.4 x 25.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications

547: 2 x 2, w/ EMI Fingers



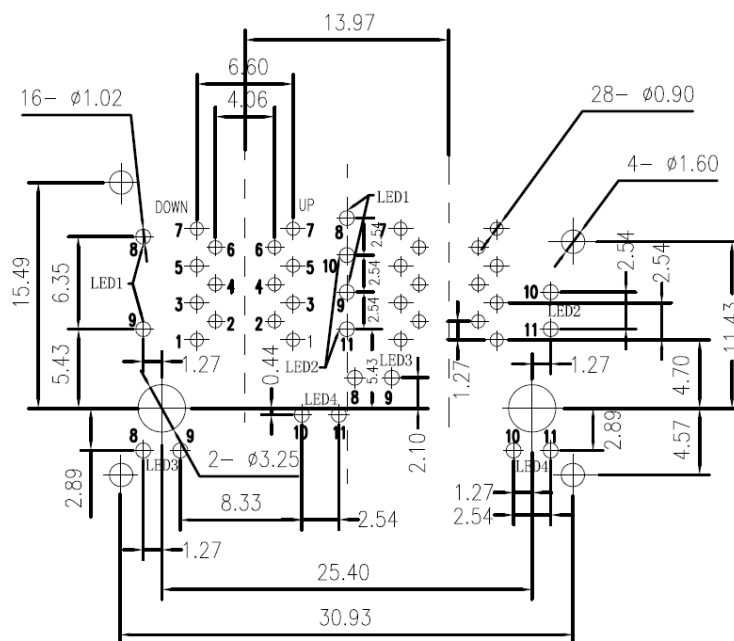
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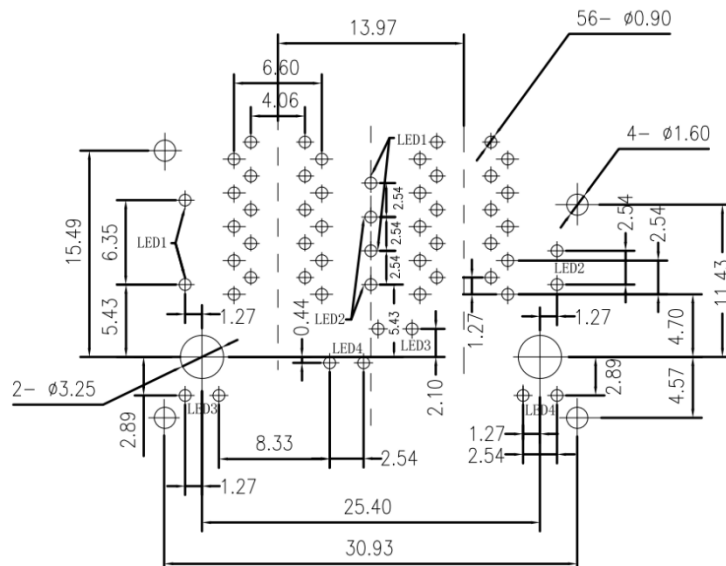
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MSL Level = 1

10/100 Base-T

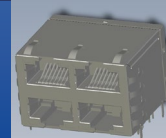


1000 Base-T



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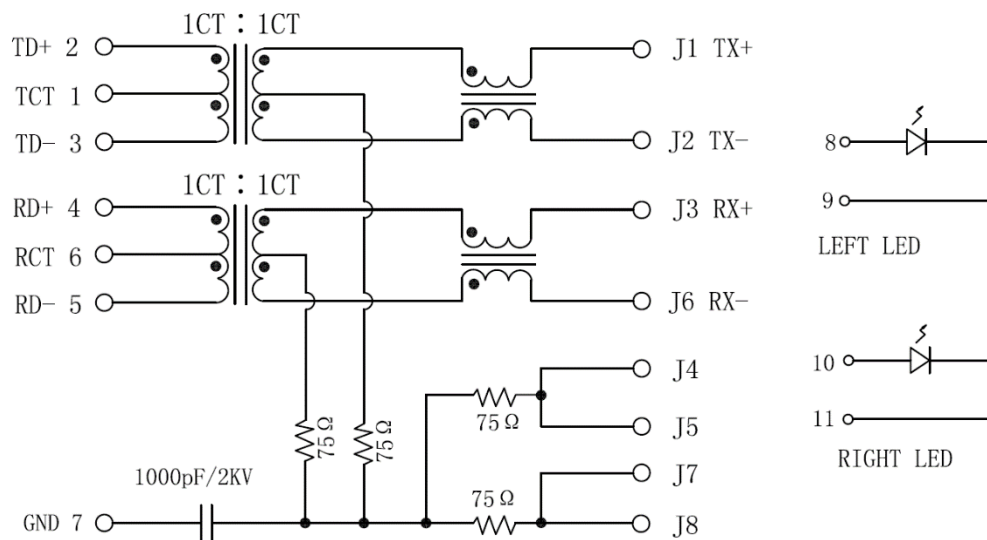
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RoHS/RoHS II Compliant

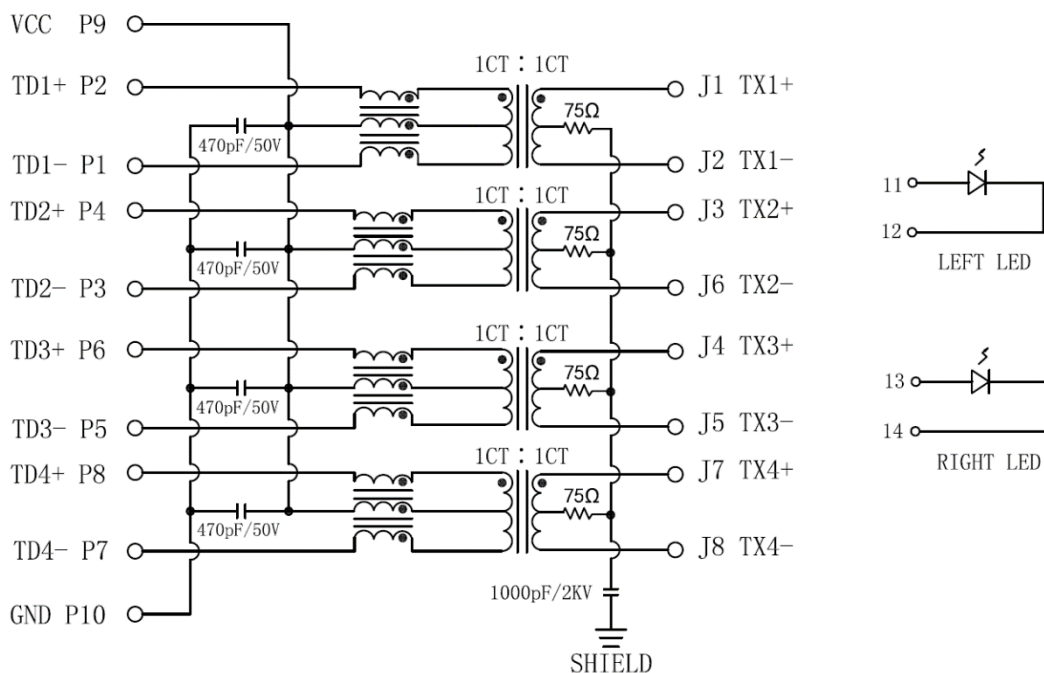
MSL Level = 1

Schematic

A12 (10/100 Base-T)



547 (1000 Base-T)

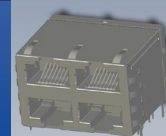


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RoHS/RoHS II Compliant

MSL Level = 1

LED SPECIFICATION. @20mA Forward Current

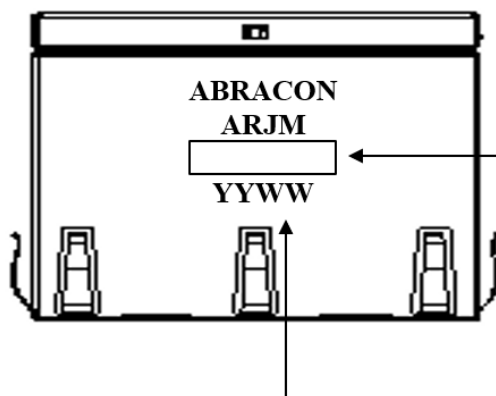
AB option (Left: Green – Right: Yellow)

BA option (Left: Yellow – Right: Green)

Color	Green	Yellow
Wavelength	565nm Typ	585nm Typ
Forward Voltage	2.2V Typ	2.1V Typ

NN option (no LEDs)

Part Marking



Part number

XXXX-XXX-XX-XXX

e.g. 22A1-A12-AB-EW2

YY: Year: E.g. 21 for 2021

WW: Week: E.g. 05 for
the 5th week of the year.

Marking Method = Laser Marking

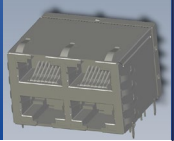


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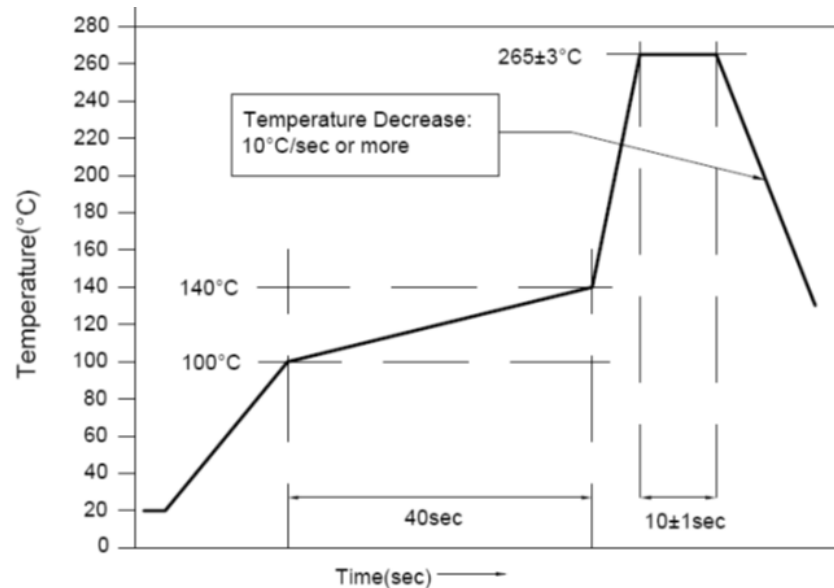


31.2 x 28.4 x 25.8 mm

RoHS/RoHS II Compliant

MSL Level = 1

Wave Profile



Packaging

Series	Approximate Weight / Pc	Approximate Weight / Carton	Qty / Carton (pcs)	Tray / Carton	MOQ (pcs)	Carton Dimensions (LxWxH)
ARJM22A	20.40 g	5688 g	224	8	224	340 x 215 x 275 mm

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