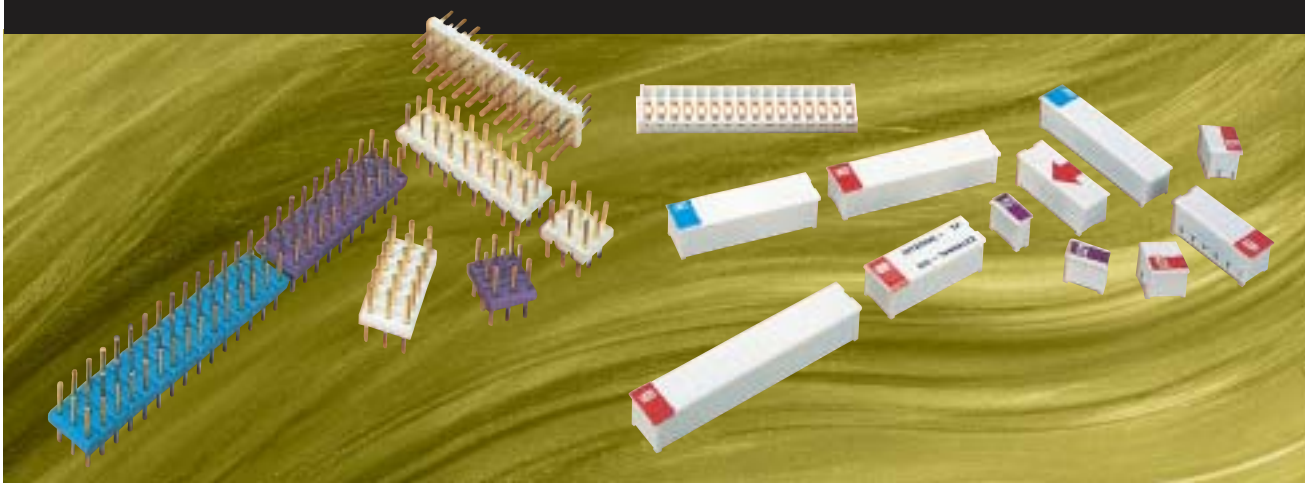
MultiCoders

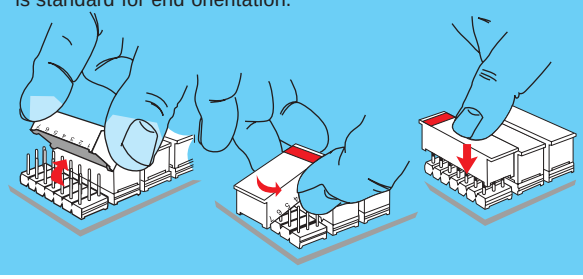


A range of bit codable link blocks and associated pinheaders that provide the means of making multiple connections on 0.1" centres.

- MultiCoders set programs, test PCBs and provide a means for achieving multiple track route changes for dual-circuit PCBs with one setting.
- MultiCoders have gold plated, independent double leaf wiping contacts that provide long term, low resistance connections with a high retention force.
- MultiCoders save over 66% of the PCB area of DIP switches.
- MultiCoders are flow-solderable, can be immersion washed and suit PCB/SM applications.
- If you have a volume requirement for a product variant not shown on this sheet please contact us.

Multiple Pole Changeover Action

A widely used feature of the 3L series MultiCoder is the multiple changeover action in which the un-connected pins are always shrouded. Band marking in a choice of colours is standard for end orientation.



Principal Electrical and Performance Data

at 20˚C 70% RH on ERG stock terminal pins

Electrical

Contact Resistance: 20mΩ maximum over first 100 engagements (measured at 10mV, 10mA max).

Current Rating:
2A continuous maximum (non-switching) per contact,
5A continuous maximum (non-switching) per housing.

Insulation Resistance: 1000MΩ at 500Vdc.

Voltage Proof: 500Vrms 50Hz for 1 minute

Capacitance: < 2pf at 1400Hz.

Materials

Housing: Polyester, flame retardent to UL94 VO

Contact: Phosphor-bronze to BS2870, plated with cobalt hardened gold over nickel, barrier layer.

Terminal Pin: Brass wire to BS2873, plated with cobalt hardened gold over nickel, barrier layer.

Note: *These materials offer resistance to most common PCB cleaning solvents.*

Mechanical

Engaging Force: 1.5N typical per contact.

Seperating Force: 1.0N typical per pin.

Shock: 50g minimum.

Operating temperature: -55˚C to +85˚C.

Humidity: IEC 68-2-3, (56 days, 40˚C, 95% RH).

Soldering Temperature: Resistance to soldering heat as per IEC 68 and BS 2011 10 seconds satisfactory at 260˚C when mounted on 1.5mm PCB.

Solderability (pin): <2 seconds to wet at 235˚C as per IEC 68 and BS 2011 Test T, solder bath method.

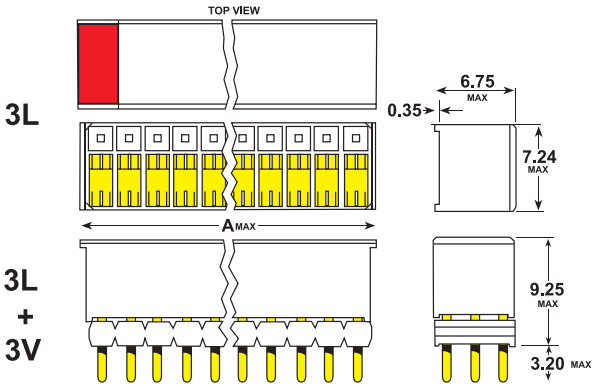
Please note: BS 2011 is now superseded by BS EN 60068.

ITW Erg Components

MultiCoders

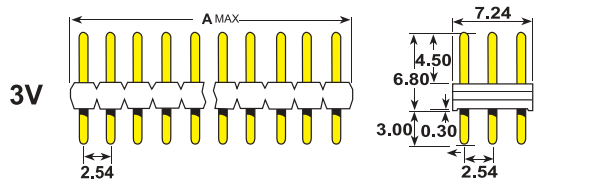
3L

Number of pitches	Dimension 'A' mm	Number of pitches	Dimension 'A' mm
01	4.30	09	24.62
02	6.84	10	27.16
03	9.38	11	29.70
04	11.92	12	32.24
05	14.46	13	34.78
06	17.00	14	37.32
07	19.54	15	39.86
08	22.08	16	42.40



3V PinHeaders

Number of pitches	Dimension 'A' mm	Number of pitches	Dimension 'A' mm
01	2.54	09	22.86
02	5.08	10	25.40
03	7.62	11	27.94
04	10.16	12	30.48
05	12.70	13	33.02
06	15.24	14	35.56
07	17.78	15	38.10
08	20.32	16	40.64



Order Code

Example: 3L92-08-3V-GO
(3L Series Multicoder, White, Red band, 8 Pitches in 3 vertical rows of pins with 0.1µm gold plate)

3L 9 2 - 08 - 3V - GO

Series No.
MultiCoder
3L

Moulding Colour

	Brown
2	Red
	Orange
	Yellow
	Green
	Blue
	Violet
	Grey
9	White

Band Colour

2
9

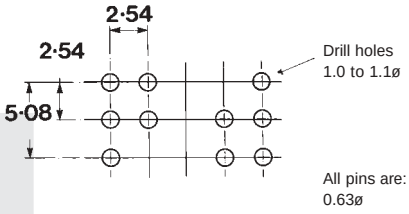
No. of Pitches

1	9
2	10
	11
5	
	14
7	
8	

Pin Layout
3V
3 vertical rows

Contact & Pin Finish
Plating finish for contacts and terminal pins is colbalt hardened gold over nickel barrier layer. Minimum thickness of nickel: 2.5µm. Minimum thickness of gold: GO - 0.1µm

Recommended PC board drilling



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