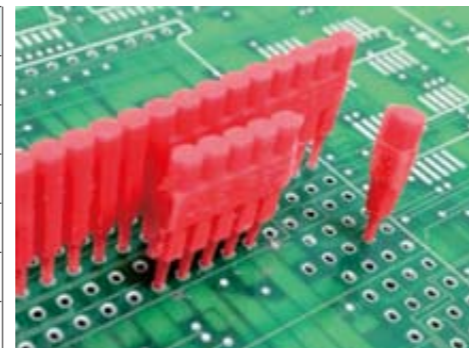
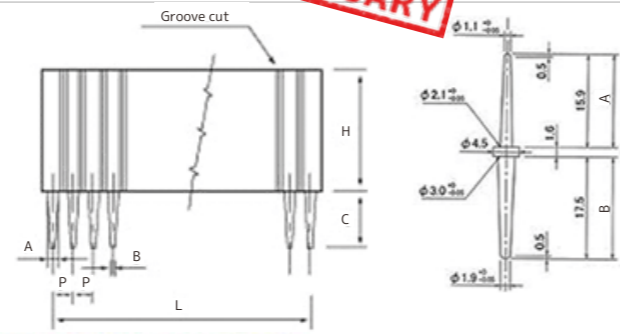


Through Hole Protector (Dummy parts)

MASKING TAPE IS NOT NECESSARY

PH series

All of the material quality is made from heat-resistant resin. It can be reused making it economical and efficient. This can be used in all automated lines including cutting and cleaning.

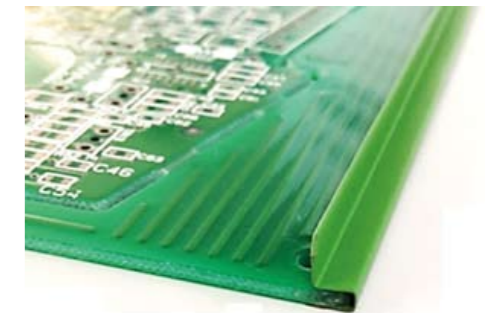


Model Number	Color	Number of Pins	Pmm	Aφ	Bφ	Cmm	Hmm	Lmm	Range of Application Hole
PH-30207	Black	30	2.54	1.3	0.6	7	15	75	0.8φ~1.3φ
PH-36205R	Red	36	2.54	1.0	0.6	5.2	10	91	0.7φ~1.0φ
PH-36306B	Blue	36	2.0	1.0	0.5	5.2	10	72	0.7φ~0.8φ
PH-30178R	Red	30	1.78	0.84	0.62	5.2	10	51.6	0.7φ~0.8φ
PH-30127	Black	30	1.27	0.62	0.0	4.5	7	36.8	0.7φ~0.8φ
PH-01123	Red	1	-	*1	*1	-	-	-	*1 A:1.3φ~2.0φ / B:2.2φ~2.9φ

Expendable Jig Catalogue

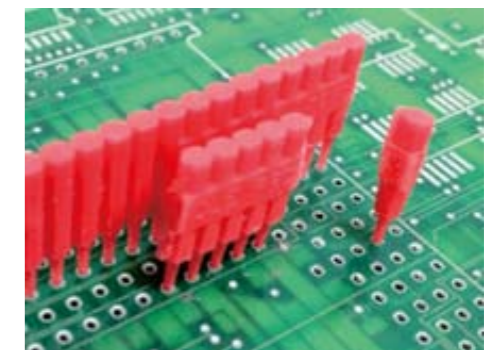
Circuit board warp-prevention jig Dip Cover

Eliminates unnecessary work and prevents circuit board warpage.



Through Hole Protector Try Pin

Eliminates unnecessary work and securely protects component holes.



OKUHARA
Ideas into ideal

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TEL:+81-3-3763-2231 E-mail:info@okuhara-elec.com
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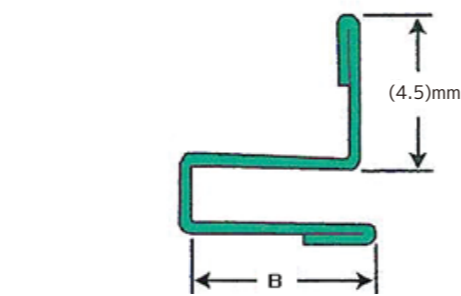


Deep Cover: Circuit board warp-prevention



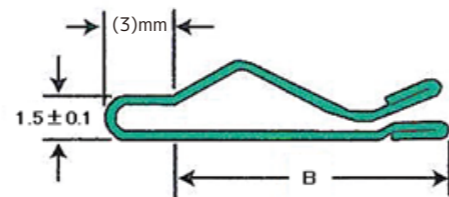
DCK type

This curbs circuit board warpage due to factors such as heat and prevents solder fogging. This is also valid in cases of perforation for division usage. It is possible to use this when the insertion depth to the circuit board (B dimensions) is not deep. This curbs deformations in circuit boards inside air reflow. This prevents moulder operational obstructions from circuit board warpage or bending.



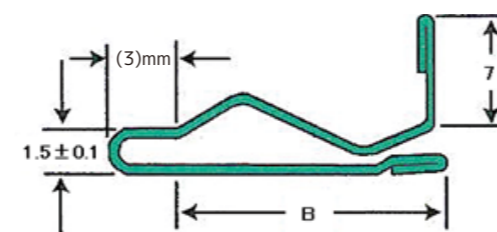
DC type

This covers the circuit board card edge connector (connector part). This can temporarily cover areas such as the pilot hole cover of the on-board connector attached to the edge of the circuit board. Removing and inserting the circuit board becomes even easier with the internal Teflon option.



DCHF type

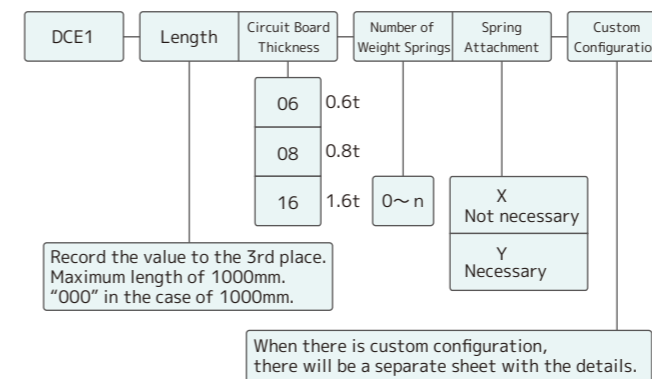
This curbs circuit board warpage due to factors such as heat and prevents solder fogging. This covers the pilot hole of rear attachments close to the edge of the circuit board.



DCE1 type

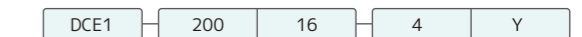
This prevents solder fogging and circuit board warpage. One of these can support types with different configurations. This can be cut to the length of your preference due to the aluminum material. The material length is 1000mm. We can make cuts at specified lengths. (The cut surface is not treated) The quantity and position of the weight springs can be optionally set.

Order Symbol



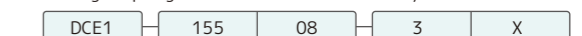
Entry example:

■ Length: 200mm, Circuit board thickness: 1.6mm, 4 Weight springs, attachment is necessary.



DCE1-20016-4Y

■ Length: 155mm, Circuit board thickness: 0.8mm, 3 Weight springs, attachment is not necessary.



DCE1-15508-3X

■ Length: 1000mm, Circuit board thickness: 0.6mm, 2 Weight springs, attachment is necessary.



DCE1-100006-2Y

Product Specifications

Item	Standard Specifications	Custom Options
Configuration	DCK / DC / DCHF	DCL / DCLS / DCUL etc.
Quality of Material	Special composition	Titanium
Length (A)	Refer to the column on the right	55-320mm
Insertion Depth (B)	DCK 4.5mm DC / DCHF 7.0mm	DCK 4.0~6.0mm DC / DCHF 7.0~15.0mm
Application Circuit Board (t)	Thickness of 1.6mm ±0.1 Grip force changes depending on the circuit board tolerance.	Thickness starting from 0.5mm (Contact us concerning custom thickness)
Color	green (Options grey/black/brown)	Color of the material
Surface Treatment	Surface Teflon	E: Entire surface chemical treatment R: No front surface treatment I: Internal Teflon (External chemical treatment)
Heat-resistance	260°C within 2 minutes/ (without pressurization) max	
Number of Uses	Over 200 times (used repeatedly at 245°C soldering at a 4 second interval)	
Order Units	10 units	Over 50 at 10 per unit
RoHS	Compatible	

Standard Size

The thickness of all the supported circuit boards t=1.6

DCK type (standard)		DC type (standard)		DCHF type (standard)	
Length	Model Number	Length	Model Number	Length	Model Number
55mm	DCK-0554.5	55mm	DC-05507	55mm	DCHF-05507
100mm	DCK-1004.5	100mm	DC-10007	100mm	DCHF-10007
120mm	DCK-1204.5	120mm	DC-12007	120mm	DCHF-12007
155mm	DCK-1554.5	155mm	DC-15507	155mm	DCHF-15507
170mm	DCK-1704.5	170mm	DC-17007	170mm	DCHF-17007
200mm	DCK-2004.5	200mm		200mm	
220mm	DCK-2204.5	220mm	DC-22007	220mm	DCHF-22007
240mm	DCK-2404.5	240mm	DC-24007	240mm	DCHF-24007
260mm	DCK-2604.5	260mm	DC-26007	260mm	DCHF-26007
280mm	DCK-2804.5	280mm	DC-28007	280mm	DCHF-28007
300mm	DCK-3004.5	300mm	DC-30007	300mm	DCHF-30007
320mm	DCK-3204.5	320mm	DC-32007	320mm	DCHF-32007

■Precautions when using:

- Solder may adhere depending on the usage.
- Immediately remove after soldering.
- Make judgment on the lifespan based on the dimensions and deformation of the opening parts and the amount of exfoliation in the coating.

Product Specifications

Item	Standard Specifications
Configuration	DCE1
Quality of Material	Aluminum (Extruded material)
Length (A)	1000mm (Material dimensions)
Insertion Depth (B)	3.0 / 4.0 / 4.5 / 6.0mm
Jig Height (C)	13.0mm
Application Circuit Board (t)	0.6 / 0.8 / 1.6mm
Color	Color of the material
Surface Treatment	White anodized aluminum (optional)
Heat-resistance	260°C within 2 minutes/ (without pressurization) max
Number of Uses	Over 200 times (used repeatedly at 245°C soldering at a 4 second interval)
Order Units	Over 50 at 10 per unit
RoHS	Compatible

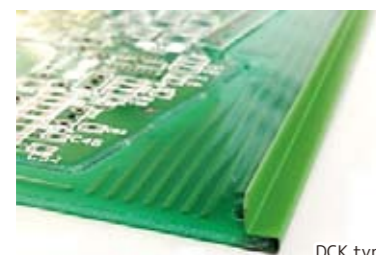
Surface Treatment Comparison

	White Anodized Aluminum (Standard)	Hardness Anodized Aluminum (Option)	Conductivity Anodized Aluminum (Option)	Degeneration Anodized Aluminum (Option)
The surface becomes hard. (Making it difficult to scratch)	○	◎		
Prevention of impurities on the circuit board from aluminum scraping.	○	○		◎
Increase in erosion resistance. (Erosion prevention effect)	○	○		
Stronger than conventional anodized aluminum.		◎		
Static electricity countermeasure.			◎	
Prevention of solder adhesion.	○	○		◎
Improvement in release properties.				◎

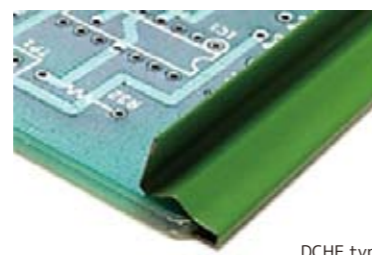
■Precautions when using:

- Do not pass through the lead cutter.
- Use within a frame temperature of 245°C.

There are dimensions which do not support production depending on the configuration and combination. Please contact us for dimensions not listed above.



DCK type



DCHF type



DC type

