

Leading Solution

LG Cable, LG Industrial Systems and LG-Nikko Copper, Gaon Cable, E1 and Kukdong City Gas are starting with a new name, Leading Solution, LS.

about LS

Leaping as a leading global company in industrial electric and electronic field and material business, LS Group, separated from LG Group in March 2005 and started as a young company. LS Group is a healthy enerprise providing 'Leading Solution' to our customers, contributing to the society and realizing drems together with employees. LS Mitron is leading the component and machinery industry. The major affiliate companies of LS including LS Cable, LS Industrial Systems, LS-Niko Copper, Gaon Gable, E1 and YESCO are No. 1 companies in he industry they each belong o Now, they pave their way to become the global No. a future-leading compaby providing 'Leading Solution' from being he No. 1 company in Korea, After its launch, the LS Group concentrates many of its resources to the activities of management innovation to produce synergy between each affiliate and to expand overseas business. The company increasingly invests to establish a global network connecting China, the Middle East, Russia and East Europe. In R&D sector, cooperation and sharing among affiliate copanies, together with various activities to develop new growth engine, is systematically going on. LS, leaping as a major group since it started business 3 years ago, leaves no stone unturned to establish a unique corporate culture. With the belf and respect toward family. LS Group will always be with you as a true company contributing to the society, where talentec, professional and pasionate employees would grow together with the company contributing to the society.

Your No.1 Creative Partner

Your No. 1 creative partner in providing creative solutions. With this vision, LS Miron fortifies its image of taking customer satisfaction first, "Trust, Passion and Challenge", are three words we take to heart. We want to grow together with you and create more success for both our companies. "Trust' is very important in recognizing each person as a unique individual within the organization. It is a core value accumulated through belief and cooperation among juniors, seniors and colleagues. 'Passion' is a characteristic that helps us a chieve a certain goal with a sense of ownership and tenacity for the given duties through devotion, perseverance and responsibility.

Passion provides a motive for each individual and teams to devote themselves to their work. With this, we believe that we can devolop and grow together. "Challenge' showcases the progressive attilude of LS Miron to overcome limitations to enhance individual's competence through high goals, confidence and action on the belief that "I can do it". LS Miron is an enterprise that lives by trust, passion and challenge. To be the No. 1 company relied upon by our customers: LS Miron is your No. 1 Partner providing the best solutions required by customers as we both build our future success.

LS MTRON

YOUR Partner you can rely on to grow with today and tomorrow. NO.1 LS Mtron is customer-trusted No. 1 globat parther recognized all over the world. CREATIVE Creative thinking and problem-solving capability that satisfy customer's needs. PARTNER Partnership with customers to reach goals by relying and cooperating with each other.

LS Connecor New Application and Defect-free Connections







Applications

These products are used in many electronic appliances, such as VCRs, TVs, audio sets, telephones, OA equipment, faxes, computers, cookers, medical equipment, measuring instrument, communication PDAs, PSC & mobile phone devices, LCDs, monitors, computer & peripherals, automatic vending machines and broadcasting equipment.

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LS Connector

We are opening the new possibilities of electronic components!

C ince 1985, as a part of non-cable business fields, we had made a technology-introduction O contract with JAE who is one of the biggest connector manufacturers in Japan to produce electronic connectors for home appliances. In 1986, we started self-production and sales with 17 items.

Nowadays, IT (Information Technology) in the infocomindustry has been developing toward the information revolution which is called "Ubiquitous." Electronic appliances feature multifunctions. For that reason, the customer has been focusing on the technology improvement for the digital convergence such as Mobile Phone, Digital Display, Home Network System, DMB(Digital Muti-media Broadcasting) and so on.

To respond to customer's demands, LS Mtron's connectors for electronic appliances as the digital convergence include I/O connectors, SIM connectors, infinitesimal Board to Board connectors, FPC connectors, Memory card connectors, Micro USB connectors, Sliding Hinge, Board-to-Wire connectors and so on. We can also provide various kinds of custom-designed products to satisfy the customer's demands.

In particular, LS Mtron connectors for electronic appliances in Ubiquitous world excel in performance and function, and are evaluated as products of the utmost credibility. In addition, due to the rational and automated production processes with strict quality management, our products are highly esteemed in terms of quality, function, delivery and price.

Based on its accumulated technologies, LS Mtron always focuses on providing the product with a greater variety of custom-designed products for the customer with greater convenience. We will make every effort to offer the best technology and services available.

Manufacturing Process Products Naming Method

PCB to PCB

It is a general term for the connector that connects PCB with PCB within a set. There are $1\sim3$ piece types available, with pitches varying from 0.35 to 0.4mm.

PCB to Wire

It is a general term for the connector that connects the PCB with the cable within a set.

Methods of wiring pin header include crimping, IDC(Insulation Displacement Connection), Soldering, and Wire Wrapping.

FFC/FPC

It is a general term for the connector that connects the PCB with FPC/FFC, with pitches varying from 0.3 to 1.0mm.

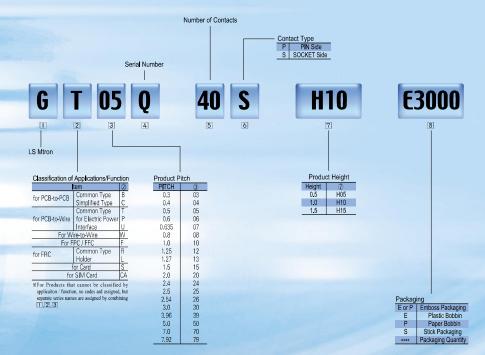
There are various kinds of products available, including ZIF(Zero Insertion Force), and LIF(Low Insertion Force). ZIF type is further subdivided into Flip type(Easy On Type) and Slider type, plus Semi-Slider type.

PRADA

Manufacturing Process



Products Naming Method



GB030 series

0.35mm Pitch Board to FPCB Connector



Features

• GB030 Series Connector is 0.9mm Height and 0.35mm pitch usually suitable for board to FPCB connection in mobile sets.

- The stable contact reliability by dual contact structure.
- Improve the contact reliability against flux because of dimple structure.
- 22% Size reduction compared with LSM GB042 Series (40pins)
- Improve the Durability during the mating, be strong against the damage by external force, and increase soldering intensity because of receptacle hold down structure.

Applications

Mobile phone

- Compact portable devices, etc

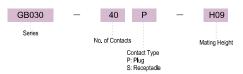
Materials & Finishes

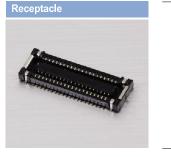
	Parts	Materials / Finishes				
	Insulator	Heat Resistant Plastic	UL94V-0			
Receptacle	Contact	Copper Alloy	Au Plating			
	Hold down	Copper Alloy	Ni Plating			
Plug	Insulator	Heat Resistant Plastic	UL94V-0			
1 lug	Contact	Copper Alloy	Au Plating			

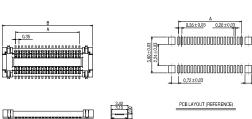
Specifications

No. of Contacts	40
Contact Spacing	0.35mm
Current Rating	AC/DC 0.25A/Pin
Voltage Rating	AC/DC 60V/Pin
Dielectric Withstanding Voltage	AC 150V(for 1 minute)
Operating Temp.	-25°C ~ +85°C

Ordering Information

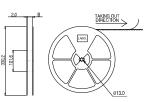


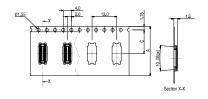




Embossed Tape Assembly

Bobbin





	No.of Pin	Part Number	Receptacle		Embossed Tape Assembly			
INC								
	40	GB030-40S-H09-E3000	6.65	9.40	24.0	26.0	11.5	-

6

7

0.70±0.03

GB030 Series Plug & Embossed Tape Assembly

0,35

0.35±0.03 0.20±0.03

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PCB LAYOUT (REFERENCE)

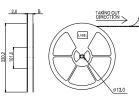
GB040 series

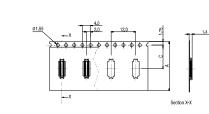
0.4mm pitch PCB to PCB Connector









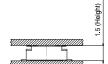


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No.of Pin	Part Number	Receptacle		Embossed Tape Assembly				
							D	
40	GB030-40P-H09-E3000	6.65	8.54	24.0	26.0	11.5	-	



Mating Diagram



Features

- GB040 series Connector is 0.4 mm pitch, low profile PCB to PCB SMT type connector.
- Bellows contact structure with high contact reliability.
- Solder wicking prevention structure with insert molding technology and nickel barrier.

Applications

Mobile phone

Compact portable devices, etc

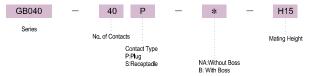
Materials & Finishes

Pa		Materials / Finishes				
Insulator		Heat Resistant Plastic	UL94V-0			
Contact	Plug	Copper Alloy	Au Plating			
	Recep.	Copper Alloy	Au Plating			

Specifications

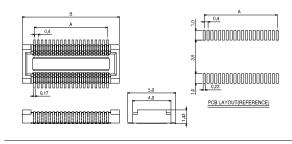
No. of Contacts	20~80
Stacking Height	1.5mm
Contact Spacing	0.4mm
Current Rating	0.5Amps/Pin
Voltage Rating	AC, DC 50V
Dielectric Withstanding Voltage	AC 250V r.m.s(for one minute)
Insulation Resistance	1000MQ
Contact Resistance	70mQ
Operating Temp.	-25°C ~ +85°C

Ordering Information



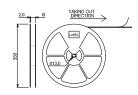
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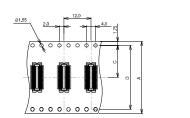




Embossed Tape Assembly

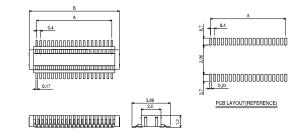
Bobbin





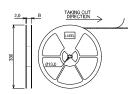
No.of Pin	Part Number	Rece	Receptacle		Embossed Tape Assembly				
							D		
20	GB040 - 20S - * - H15 - E2000	3.6	6.1						
24	GB040 - 24S - * - H15 - E2000	4.4	6.9						
28	GB040 - 28S - * - H15 - E2000	5.2	7.7			11.5			
30	GB040 - 30S - * - H15 - E2000	5.6	8.1	24.0	26.0		-		
34	GB040 - 34S - * - H15 - E2000	6.4	8.9						
40	GB040 - 40S - * - H15 - E2000	7.6	10.1						
44	GB040 - 44S - * - H15 - E2000	8.4	10.9						
50	GB040 - 50S - * - H15 - E2000	9.6	12.1						
54	GB040 - 54S - * - H15 - E2000	10.4	12.9	32.0	34.0	14.2	28.4		
60	GB040 - 60S - * - H15 - E2000	11.6	14.1		00	17.2	20.4		
70	GB040 - 70S - * - H15 - E2000	13.6	16.1						

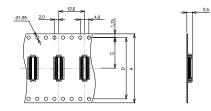




Embossed Tape Assembly

Bobbin





No. of Pin	Part Number	Plug		Embossed Tape Assembly				
110.01111			В	А			D	
20	GB040 - 20P - * - H15 - E2000	3.6	5.1			11.5		
24	GB040 - 24P - * - H15 - E2000	4.4	5.9				-	
28	GB040 - 28P - * - H15 - E2000	5.2	6.7		26.0			
30	GB040 - 30P - * - H15 - E2000	5.6	7.1	24.0				
34	GB040 - 34P - * - H15 - E2000	6.4	7.9					
40	GB040 - 40P - * - H15 - E2000	7.6	9.1					
44	GB040 - 44P - * - H15 - E2000	8.4	9.9					
50	GB040 - 50P - * - H15 - E2000	9.6	11.1					
54	GB040 - 54P - * - H15 - E2000	10.4	11.9	32.0	34.0	14.2	28.4	
60	GB040 - 60P - * - H15 - E2000	11.6	13.1	52.0	04.0	17.2	20.4	
70	GB040 - 70P - * - H15 - E2000	13.6	15.1					

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GB042 series

0.4mm pitch PCB to PCB Connector

GB042 series | Receptacle & Embossed Tape Assembly



Mating Diagram

Features

- GB042 series Connector is 0.4 mm pitch, low profile PCB to PCB SMT type connector.
- Improved contact reliability with plug and receptacle contacting at 2 point simultaneously.
- Stable unmating mechanism preventing receptacle contact from being deformed.

Applications

Mobile phone

- Compact portable devices, etc

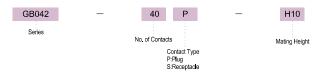
Materials & Finishes

Parts		Materials / Finishes				
Insulator		Heat Resistant Plastic	UL94V-0			
Contact	Plug	Copper Alloy	Au Plating			
Contact	Recep.	Copper Alloy	Au Plating			

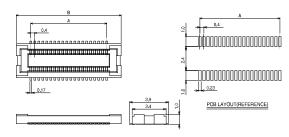
Specifications

No. of Contacts	10~80
Stacking Height	1.0mm
Contact Spacing	0.4mm
Current Rating	AC, DC 0.3A/pin
Voltage Rating	AC, DC 50V
Dielectric Withstanding Voltage	AC 250V r.m.s(for one minute)
Insulation Resistance	1000MΩ
Contact Resistance	70mQ
Operating Temp.	-25℃ ~ +85℃

Ordering Information

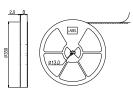


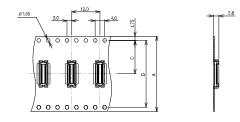




Embossed Tape Assembly

Bobbin





No. of Pin	Part Number	Receptable		Embossed Tape Assembly			
			В	А	В		D
10	GB042 - 10S - * - H10 - E3000	1.6	4.5				
20	GB042 - 20S - * - H10 - E3000	3.6	6.5	16.0	18.0	7.5	
24	GB042 - 24S - * - H10 - E3000	4.4	7.3	10.0	10.0	7.5	
28	GB042 - 28S - * - H10 - E3000	5.2	8.1				
30	GB042 - 30S - * - H10 - E3000	5.6	8.5		26.0	11.5	
34	GB042 - 34S - * - H10 - E3000	6.4	9.3				
40	GB042 - 40S - * - H10 - E3000	7.6	10.5				
44	GB042 - 44S - * - H10 - E3000	8.4	11.3	24.0			-
50	GB042 - 50S - * - H10 - E3000	9.6	12.5				
54	GB042 - 54S - * - H10 - E3000	10.4	13.3				
60	GB042 - 60S - * - H10 - E3000	11.6	14.5	1			
64	GB042 - 64S - * - H10 - E3000	12.4	15.3	32.0	34.0	14.2	28.4
70	GB042 - 70S - * - H10 - E3000	13.6	16.5	02.0	54.0	14.2	28.4

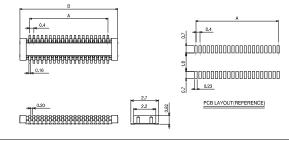
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GB042 series | Plug & Embossed Tape Assembly

GB044 series

0.4mm pitch PCB to PCB Connector

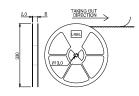


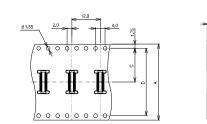


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Embossed Tape Assembly

Bobbin





No. of Pin	Part Number	Р	lug	Embossed Tape Assembly				
		А	В	А	В	С	D	
10	GB042 - 10P - * - H10 - E3000	1.6	3.5					
20	GB042 - 20P - * - H10 - E3000	3.6	5.5	16.0	18.0	7.5		
24	GB042 - 24P - * - H10 - E3000	4.4	6.3	10.0				
28	GB042 - 28P - * - H10 - E3000	5.2	7.1					
30	GB042 - 30P - * - H10 - E3000	5.6	7.5		26.0	11.5	-	
34	GB042 - 34P - * - H10 - E3000	6.4	8.3					
40	GB042 - 40P - * - H10 - E3000	7.6	9.5					
44	GB042 - 44P - * - H10 - E3000	8.4	10.3	24.0				
50	GB042 - 50P - * - H10 - E3000	9.6	11.5					
54	GB042 - 54P - * - H10 - E3000	10.4	12.3					
60	GB042 - 60P - * - H10 - E3000	11.6	13.5					
64	GB042 - 64P - * - H10 - E3000	12.4	14.3					
70	GB042 - 70P - * - H10 - E3000	13.6	15.5	32.0	34.0	14.2	28.4	



Features

- GB044 Series Connector is 0.4 mm pitch, low profile PCB to PCB SMT Type Connector
- Improved contact reliability with plug and receptacle contacting at 2 point simultaneously.
- Stable unmating mechanism preventing receptacle contact from being deformed.
- The locking structures provided for the hold down improve the unmating force.

Applications

- Mobile phone
- · Compact portable devices, etc

Materials & Finishes

0.6 (Height)
- t

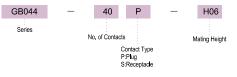
Mating Diagram

		Materials / Finishes			
Receptacle	Insulator	Heat Resistant Plastic	UL94V-0		
	Contact	Copper Alloy	Au Plating		
	Hold down	Copper Alloy	Ni Plating		
Plug	Insulator	Heat Resistant Plastic	UL94V-0		
	Contact	Copper Alloy	Au Plating		
	Hold down	Copper Alloy	Ni Plating		

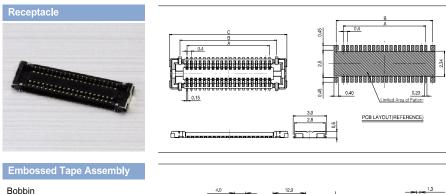
Specifications

No. of Contacts	40
Stacking Height	0.6mm
Contact Spacing	0.4mm
Current Rating	AC, DC 0.3A/pin
Voltage Rating	AC/DC 50V/Pin
Dielectric Withstanding Voltage	AC 250V r.m.s(for 1 minute)
Insulation Resistance	1000MQ
Contact Resistance	90mQ
Operating Temp.	-25℃ ~ +85℃

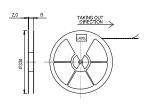
Ordering Information



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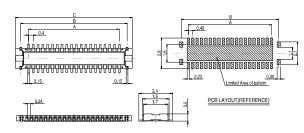
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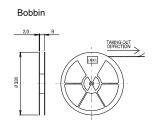
 2.0	12.0	1.75	

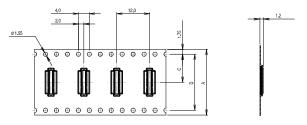
No.of Pin	Part Number	Receptacle			Embossed Tape Assembly			
								D
40	GB044 - 40S - * - H06 - E3000	7.6	8.9	10.8	24	26	10.3	20.5





Embossed Tape Assembly





No.of Pin	Part Number	Plug			Embossed Tape Assembly			
		А	В		А	В	С	D
40	GB044 - 40P - * - H06 - E3000	7.6	8.9	9.8	24	26	10.3	20.5

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