

SMD finger overview

BCG-20X32X015₽	TCG-15X27X020₽	BCG-20X40X020₽	BCG-25X40X021+	BCG-20X30X025↔
		-	-	
BDS-20X35X027₽	B6G-20X75X030₽	B5G-20X30X031₽	BCG-20X30X040₽	BCG-25X30X040↔
BXG-25X35X040₽	B5G-25X40X041₽	BCG-25X45X048₽	BCG-25X40X050₽	B5G-40X40X051₽
BCG-20X40X053₽	BCG-25X40X055₽	BCG-20X47X057₽	B5G-25X45X060₽	B5G-20X70X062₽
BSG-20X45X070+	B3G-25X48X070₽	BSG-25X65X080₽	B3 <u>G</u> -25X70X090₽	B3G-30X30X100₽
				7
BSG-25X70X120₽	BDG-25X60X058₽	B8G-20X45X045₽	BCG-20X38X020₽	BCG-25X43X035↓
				-
			-	
B8G-30X40X051₽	SDG-25X34X027₽	B8G-20X40X037₽	BCG-20X60X060₽	BCG-25X40X060↔
6				
TCG-15X27X020+	BCG-20X60X040₽	B7G-25X40X050₽	BCG-20X58X050₽	B4G-25X40X054₽
BCG-25X50X054₽	B8G-25X70X062↔	B3G-25X48X100₽	BCG-40X40X080+	BCG-20X45X048↔
27				
BCG-20X35X031₽	BCG-25X41X025₽	BCG-20X35X035₽	BCG-20X32X35¢	BCG-20X40X055
C. D	Control of the second		6	6
B8G-25X150X100+	B <u>5G</u> -95X47X60₽	BCS-30X66X70₽	P	φ
		r4.		

SMD finger specification(1/2)

Finger P/N	Finger Shape	Finger Width (mm)	Finger Length (mm)	Finger Height (mm)	Material	Plating Type	Stroke	Remark
B3G-25X48X070	3	2.5	4.8	7	BeCu	Au	0.50~2.50	
B3G-25X48X100	3	2.5	4.8	10	BeCu	Au	0.10~3.00	
B3G-25X70X090	3	2.5	7	9	BeCu	Au	0.10~2.50	
B3G-30X60X100	3	3	6	10	BeCu	Au	0.10~3.00	
B4G-25X40X054	4	2.5	4	5.4	BeCu	Au	0.20~2.00	
B5G-20X30X031	5	2	3	3.1	BeCu	Au	0.30~1.00	
B5G-20X70X062	5	2	7	6.2	BeCu	Au	0.70~2.70	
B5G-25X40X041	5	2.5	4	4.1	BeCu	Au	0.30~1.50	
B5G-25X45X060	5	2.5	4.5	6	BeCu	Au	0.30~2.50	
B5G-40X40X051	5	4	4	5.1	BeCu	Au	0.50~2.00	
B5G-95X47X060	5	9.5	4.7	6	BeCu	Au	0.30~2.50	
B6G-20X75X030	6	2	7.5	3	BeCu	Au	NA	side contact
B7G-25X40X050	7	2.5	4	5	BeCu	Au	0.25~1.50	
B8G-20X40X037	8	2	4	3.7	BeCu	Au	0.50~1.20	
B8G-20X45X045	8	2	4.5	4.5	BeCu	Au	0.50~1.50	
B8G-25X150X100	8	2.5	15	10	BeCu	Au	0.20~1.00	
B8G-25X70X062	8	2.5	7	6.2	BeCu	Au	0.50~2.50	
B8G-30X40X051	8	3	4	5.1	BeCu	Au	0.50~1.80	
BCG-20x30x025	С	2	3	2.5	BeCu	Au	0.25~0.80	
BCG-20X30X040	С	2	3	4	BeCu	Au	0.30~1.20	
BCG-20X32X015	С	2	2.3	1.5	BeCu	Au	0.20~0.50	
BCG-20X32X035	С	2	3.2	3.5	BeCu	Au	0.50~1.50	
BCG-20X35X031	С	2	3.5	3.1	BeCu	Au	0.30~1.00	
BCG-20X35X035	С	2	3.5	3.5	BeCu	Au	0.30~1.00	
BCG-20X38X020	С	2	3.8	2	BeCu	Au	0.30~0.50	
BCG-20X40X020	С	2	4	2	BeCu	Au	0.30~0.60	

SMD finger specification(2/2)

Finger P/N	Finger Shape	Finger Width (mm)	Finger Length (mm)	Finger Height (mm)	Material	Plating Type	Stroke	Remark
BCG-20X40X053	С	2	4	5.3	BeCu	Au	0.30~2.00	
BCG-20X40X055	С	2	4	5.5	BeCu	Au	0.50~2.50	
BCG-20X45X048	С	2	4.5	4.8	BeCu	Au	0.50~1.80	
BCG-20X47X057	С	2	4.7	5.7	BeCu	Au	0.60~2.20	
BCG-20X58X050	С	2	5.8	5	BeCu	Au	0.50~1.50	
BCG-20X60X040	С	2	6	4	BeCu	Au	NA	side contact
BCG-20X60X060	С	2	6	6	BeCu	Au	0.50~2.00	
BCG-25X30X040	С	2.5	3	4	BeCu	Au	0.30~1.20	
BCG-25X40X021	С	2.5	4	2.1	BeCu	Au	0.20~0.50	
BCG-25X40X050	С	2.5	4	5	BeCu	Au	0.25~1.50	
BCG-25X40X055	С	2.5	4	5.5	BeCu	Au	0.25~2.00	
BCG-25X40X060	С	2.5	4	6	BeCu	Au	1.00~2.00	
BCG-25X41X025	С	2.5	4.1	2.5	BeCu	Au	0.25~0.80	
BCG-25X43X035	С	2.5	4.3	3 . 5	BeCu	Au	0.30~1.00	
BCG-25X45X048	С	2.5	4.5	4.8	BeCu	Au	0.50~1.80	
BCG-25X50X054	С	2.5	5	5.4	BeCu	Au	0.50~2.00	
BCG-40X40X080	С	4	4	8	BeCu	Au	0.50~2.00	
BCS-30X66X070	С	3	6.6	7	BeCu	Tin	0.10~2.00	
BDG-25X60X058	D	2.5	6	5.8	BeCu	Au	NA	side contact
BDS-20X35X027	D	2	3.5	2.7	BeCu	Tin	NA	side contact
BSG-20X45X070	S	2	4.5	7	BeCu	Au	0.50~2.10	
BSG-25X65X080	S	2.5	6.5	8	BeCu	Au	0.50~2.40	
BSG-25X70X120	S	2.5	7	12	BeCu	Au	0.50~3.00	
BXG-25X35X040	Х	2.5	3.5	4	BeCu	Au	0.60~1.50	
SDG-25X34X027	D	2.5	3.4	2.7	Stainless	Au	NA	side contact
TCG-15X27X020	С	1.5	2.7	2	TiCu	Au	0.20~0.50	
TCG-15X27X020(Z	С	1.5	2.7	2	TiCu	Au	0.20~0.50	

SMD Finger Character

Features:

- 1. Copper Beryllium is a high strength and high conductivity alloy.
- 2. The thermal and electrical conductivities of beryllium copper promote it used in fields required heat dissipation and current carrying capacity.
- 3. Copper Beryllium, high strength alloys, has less density than conventional special coppers.
- 4. Copper beryllium alloys are available in variety of product forms.

Physical Properties

Item	
Density -g/cm^3	8.36
Thermal Expansion Coefficient (20°C~200°C)-m/m/°C	9.7 x 10-6
Thermal Conductivity-cal/(cm.s.°C)	0.25
Melting Temperature-°C	870~980

Ref: www.brushwellman.com

Mechanical and Electrical Properties

Item	Before Treatment	After Treatment	
Heat treatment		2hr 315℃	
Tensile Strength-Kgf	67~70	141~152	
Yielding Strength-Kgf	_	127~138	
Elongation Percentage-%	21	3	
Hardness-HV	176~216	410~435	
Conductivity Percentage-IACS*	22~28	Good in Au plated	

^{*} IACS: international Annealed Copper Standard.

SMD Finger Benefits

- 1. Taping and reel package for SMT machine to make fast-speed produce and less labor power requirement.
- 2. Small size feature to match up handheld equipment application.
- 3. Metal electroplated make better contact reliability than FOF.
- 4. Resist for salt-spray and thermal shock test.

Compressing Impedance and Loading Force(1/2)

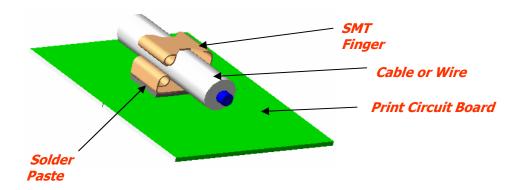
P/N	Compression Ratio(%)	Loading Force(g)	Impedance(Ω)
B3G-25x48x070	10	80	0.002
D30-238408070	30	241	0.001
D3G 0E70000	10	29	0.017
B3G-25x70x090	30	103	0.01
D2G 2060100	10	36	0.023
B3G-30x60x100	30	144	0.011
D4G 0E400E4	10	154	0.1
B4G-25x40x054	30	678	0.05
DEG 00 30 031	10	61	0.008
B5G-20x30x031	30	164	0.006
DEG 00 70 000	10	48	0.013
B5G-20x70x062	30	155	0.011
DEG 05-40-041	10	38	0.013
B5G-25x40x041	30	85	0.009
DEG DE 45 000	10	43	0.007
B5G-25x45x060	30	123	0.006
DEG 40, 40, 0E1	10	63	0.006
B5G-40x40x051	30	190	0.004
D70 05-40-050	10	135	0.005
B7G-25x40x050	30	184	0.005
DOG 00-40-027	10	109	0.008
B8G-20x40x037	30	310	0.006
DOG 00-45-045	10	65	0.01
B8G-20x45x045	30	236	0.006
DOC 20-40-0E1	10	43	0.015
B8G-30x40x051	30	422	0.005
DGG 1507015	10	26	0.221
BCG-15x27x015	30	204	0.001
DCC 202002E	10	82	0.006
BCG-20x30x025	30	294	0.004
BCG-20x30x040	10	140	0.003
	30	283	0.003
BCG-20x32x015	10	11	0.087
	30	89	0.007
DGG 00 35 031	10	61	0.008
BCG-20x35x031	30	164	0.006
DCC 2020020	10	30	0.009
BCG-20x38x020	30	151	0.005

Compressing Impedance and Loading Force(2/2)

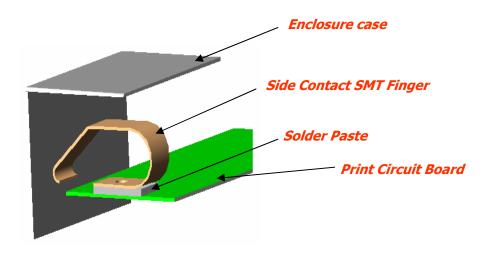
P/N	Compression Ratio(%)	Loading Force(g)	Impedance(Ω)
BCG-20x40x020	10	26	0.013
BCG-20x40x020	30	133	0.007
BCG-20x40x053	10	82	0.008
BCG-20x40x033	30	129	800.0
DGG 20-47-057	10	52	0.008
BCG-20x47x057	30	81	0.008
DGG 20F00F0	10	199	0.006
BCG-20x58x050	30	2022	0.004
DGG 2060040	10	923	0.004
BCG-20x60x040	30	2290	0.003
DGG 2060060	10	22	0.013
BCG-20x60x060	30	59	0.012
DGG 0545040	10	21	0.006
BCG-25x45x048	30	194	0.004
DGG 0530040	10	148	0.005
BCG-25x30x040	30	290	0.004
DGG 0F40001	10	37	0.004
BCG-25x40x021	30	190	0.003
DGG 0540050	10	63	0.007
BCG-25x40x050	30	153	0.006
BCG-25x40x055	10	94	0.006
BCG-Z3X40X033	30	139	0.006
BCG-25x40x060	10	99	131
BCG-Z3X40X000	30	0.06	0.06
BCG-25x43x035	10	7	0.02
BCG-Z3X43X033	30	110	0.1
BCG-25x50x054	10	606	0.007
BCG-Z3X30X034	30	800	800.0
BSG-20x45x070	10	56	0.009
D30-20x43x070	30	218	0.006
DCC 25+65+000	10	85	0.007
BSG-25x65x080	30	402	0.005
BSG-25x70x120	10	182	0.006
	30	561	0.005
Dag 05-70-130	10	212	0.006
BSG-25x70x130	30	591	0.005
BXG-25x35x040	10	114	0.028
DAU-2JX3JXU4U	30	294	0.015

SMD Finger application

- ESD Grounding function
 - Notebook, PDA, Digital Still Camera.....etc.
- Wire Clipper funct
 - Notebook LCD pannel inverter line and embedded
- Antenna line fix application
- Side Contact function
 - Contact between Motherboard and case
- Slide Contact function
 - Notebook PCMCIA card or drawable disk drive contact
- Antenna Contact function
 - Mobile Phone Singal connect between motherboard and Antenna

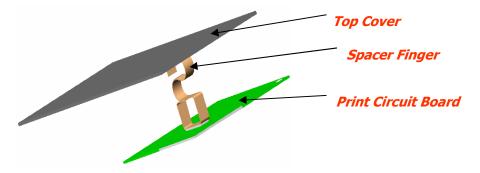


- more reliability than Kapton Tape or Acetate Tape.
- less labor power than traditional design.
- easy to rework and reuse.

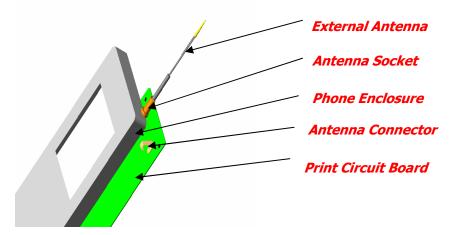


- more reliability than Gasket Foam
- less space occupied than Gasket Foam
- Applicated by handheld equipment

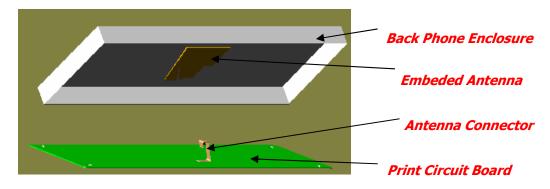
SMD Finger application



- more reliability than Gasket Foam
- less space occupied than Gasket Foam
- easy to design for higher gap between PCB & Cover
- special design to protect from shape change



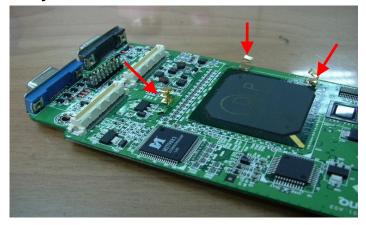
- more flexiable for Antenna Contact
- Excellent for Singal Transfer between Antenna and PCB



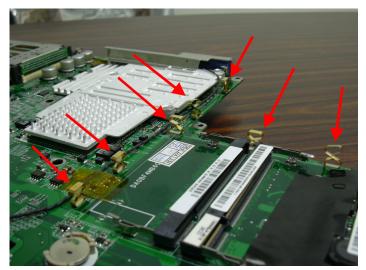
- more flexiable for Antenna Contact
- Excellent for Singal Transfer between Antenna and PCB

SMD Finger application-photo

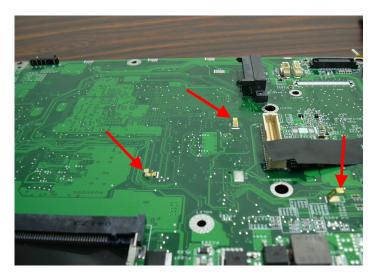
Projector

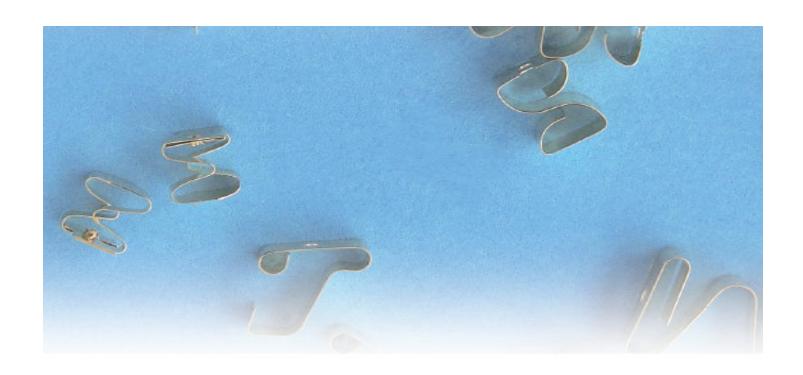


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