



SOFT SILICONE GEL GROMMETS



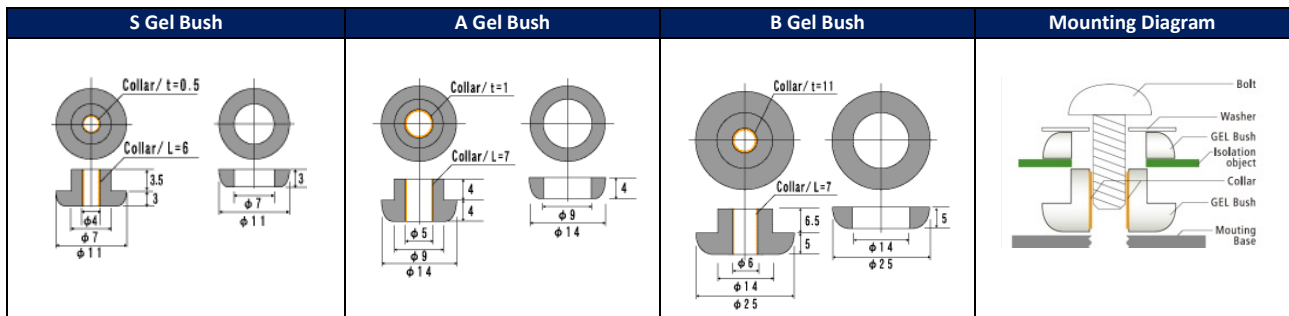
- Ultra Soft, High Damping Silicone Gel Mounts.
- Broad Temperature Range.
- Can Reduce PCB Flexure and Cracking.
- Splits in Two to Suits Various PCB Depths.
- Stable Performance over -40°C to +200°C.

PCBs often need very soft vibration and shock mounting solutions due to their low weight. These highly damped silicone gel mounts are specially designed for PCB isolation, splitting in two to take various PCB thicknesses. Much softer than traditional rubber and thermoplastic solutions and stable performance over extreme temperatures.

Outstanding vibration and shock absorption for small and narrow enclosures. This silicone based gel offers excellent shock and vibration damping. The material disperses impact three dimensionally due to its unique molecular structure. Ideal for fragile PCBs which can flex and crack in harsh environments. Damps wide frequency range.

Gel type 5 is UL HB listed. Gel types 5,6,7 & 8 have < 3,000 ppm silicone gases. Very little siloxane gas is emitted under 100c operating temp

Dimensional Data



Part Number	Outside Diameter	Flange Height	Inside Diameter	Collar Hole Inner Diameter	Mounting Hole Diameter	Centre Fixing Height	Maximum Board Thickness
S1	11	3	4	3	7	3.5	1.8
S5	11	3	4	3	7	3.5	1.8
A1	14	4	5	3	9	4	2.4
A2	14	4	5	3	9	4	2.4
B1	25	5	6	4	14	6.5	4.5
B2	25	5	6	4	14	6.5	4.5

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Specification

Part Number	Optimum Load (kg/4 legs)	Shore A Hardness (appx)	Gel Type	Recommended Frequency (Hz)	Resonance Point
S1	0.2 ~ 0.75	6	7	0.2kg: from 90 0.75kg: from 60	64 to 42
S5	0.4 ~ 1.2	10	5	Higher than S1	n/a
A1	0.5 ~ 2.5	10	6 / 5	0.5kg: from 95 2.5kg: from 50	67 to 35
A2	2.5 ~ 4.0	14	6	2.5kg: from 70 4.0kg: from 55	49 to 37
B1	4 ~ 15	14	6	4kg: from 70 15kg: from 35	49 to 23
B2	15 ~ 32	27	8	15kg: from 30 32kg: from 25	20 to 15

Material Properties

Gel Type / Unit		S1	S5	A1	A2	B1	B2	Remark
Appearance		Translucent	Yellow	Translucent	Translucent	Translucent	Translucent	-
Hardness	Needle Penetration (1/10mm) (1)	100	55	55	-	-	-	JIS K 2207
	Asker C(2)	-	-	-	33	33	52.5	SRIS 0101
Shore A Equivalent (appx)		6	10	10	14	14	27	-
Specific Gravity		1.06	1.05	1.05	1.06	1.06	1.07	-
Tensile Strength		0.23	1.17	1.17	1.58	1.58	2.35	JIS K 6251
Elongation %		480	710	710	480	480	300	JIS K 6251
Young Modulus (kPa)		37.5	119.5	119.5	670.3	670.3	1432.6	-
Specific Heat (j/g.K)		1.51	1.52	1.52	1.51	1.51	1.52	DSC
Thermal Conductivity (W/m.K)		0.20	0.20	0.20	0.20	0.20	0.20	-
Specific Volume Resistance Ratio (Ohm-cm)		2.9 * 10	4.0 * 10	4.0 * 10	4.0 * 10	4.0 * 10	6.6 * 10	JIS K 6911
Dielectric Breakdown Strength (kV/m)		16.3	15.1	15.1	18.4	18.4	18.7	JIS C 2110
Chemical Resistance	Toluene	X	X	X	X	X	X	JIS K 6258 Room Temp X 168h
	Acetone	X	X	X	X	X	X	
	Methanol	O	O	O	O	O	O	
	Distilled H2O	O	O	O	O	O	O	
	Fuel	X	X	X	X	X	X	
	Lubricant	X	X	X	X	X	X	
	NaCl (10%)	O	O	O	O	O	O	
	HCl (10%)	O	O	O	O	O	O	
Normal Temperature Range (°C)		-40 to 200	-40 to 200	-40 to 200	-40 to 200	-40 to 200	-40 to 200	-

(1) The needling depth into the gel represents the hardness.

(2) Rubber Hardness Meter. Hardness is represented by rebounding distance when needle contacts the gel surface.

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