

TECHNICAL DATA

Shielding gaskets are, very simply, connectors of two opposing metallic planes which make them appear as one continuous surface, by connecting across the openings. Depending on the frequencies involved, the openings must be reduced as closely as possible to a continuous seal.

Leader Tech's unique Fabric Shielding Gasket structure is a combination of a highly conductive nickel/copper ripstop fabric and a resilient polyurethane foam core. Leader Tech's FSG products have superior shielding properties and ensure long performance life all in a cost effective manner.

Leader Tech (FSG):

Fabric: Nickel/Copper RipStop

Foam: Open Cell Polyurethane

Compression Set: < 15% (ASTM D3574)

Temperature Range: -40°F to 158°F (-40°C to 70°C) (ASTM D746)

Surface Resistivity: ≤0.050 Ω/inch² (ASTM F390)

Flammability Rating: UL94V0

Shielding Effectiveness: >Up to 105 dB (MIL-DTL-83528C)

Pressure Sensitive Adhesive: Non-conductive, high peel strength

ROHS: Compliant

REACH: Compliant

Tolerances:

TYPICAL CROSS SECTION TOLERANCES

±.010 in. (0.25 mm) for all dimensions up to 0.04 in. (1.02 mm)
 ±.020 in. (0.50 mm) for all dimensions above 0.04 in. (1.02 mm)
 (Detailed part drawings are available upon request)

TYPICAL LENGTH TOLERANCES

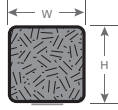
0.20 to 6.00 in.	(5 - 152 mm)	±.03 in.	(0.76 mm)
6.01 to 18.00 in.	(153 - 457 mm)	±.06 in.	(1.52 mm)
18.01 to 48.00 in.	(458 - 1219 mm)	±.08 in.	(2.03 mm)

*Other sizes available.
 Consult factory.



FSG FOR ELECTRONIC ENCLOSURES

Square Shape						
PART NUMBER	HEIGHT	WIDTH	LENGTH			
SG080080S	0.080	2.032	0.080	2.032	48	1219
SG118118S	0.118	2.997	0.118	2.997	48	1219
SG138138S	0.138	3.505	0.138	3.505	48	1219
SG160160S	0.160	4.064	0.160	4.064	48	1219
SG200200S	0.200	5.080	0.200	5.080	48	1219
SG250250S	0.250	6.350	0.250	6.350	48	1219
SG315315S	0.315	8.001	0.315	8.001	48	1219
SG354354S	0.354	8.992	0.354	8.992	48	1219
SG375375S	0.375	9.525	0.375	9.525	48	1219
SG472472S	0.472	11.989	0.472	11.989	48	1219
SG500500S	0.500	12.700	0.500	12.700	48	1219
SG512512S	0.512	13.005	0.512	13.005	48	1219
SG551551S	0.551	13.995	0.551	13.995	48	1219
SG575575S	0.575	14.605	0.575	14.605	48	1219
SG591591S	0.591	15.011	0.591	15.011	48	1219
SG670670S	0.670	17.018	0.670	17.018	48	1219
SG787787S	0.787	19.990	0.787	19.990	48	1219



Black = inches
Blue = mm

Bell Shape						
PART NUMBER	HEIGHT	WIDTH	LENGTH			
SG070180B	0.070	1.778	0.180	4.572	48	1219
SG090315B	0.090	2.286	0.315	8.001	48	1219
SG098299B	0.098	2.489	0.299	7.595	48	1219
SG100300B	0.100	2.540	0.300	7.620	48	1219
SG130256B	0.130	3.302	0.256	6.502	48	1219
SG157500B	0.157	3.988	0.500	12.700	48	1219
SG200500B	0.200	5.080	0.500	12.700	48	1219



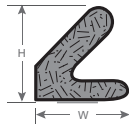
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T-Shape						
PART NUMBER	HEIGHT	WIDTH	LENGTH			
SG152235T	0.152	3.861	0.235	5.969	48	1219
SG157245T	0.157	3.988	0.245	6.223	48	1219
SG175244T	0.175	4.445	0.244	6.197	48	1219
SG244244T	0.244	6.197	0.244	6.197	48	1219



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C-Shape						
PART NUMBER	HEIGHT	WIDTH	LENGTH			
SG196325C	0.196	4.978	0.325	8.255	48	1219
SG196535C	0.196	4.978	0.535	13.589	48	1219
SG240415C	0.240	6.096	0.415	10.541	48	1219
SG252280C	0.252	6.401	0.280	7.112	48	1219
SG315315C	0.315	8.001	0.315	8.001	48	1219
SG347685C	0.347	8.814	0.685	17.399	48	1219
SG380420C	0.380	9.652	0.420	10.668	48	1219
SG385420C	0.385	9.779	0.420	10.668	48	1219
SG465420C	0.465	11.811	0.420	10.668	48	1219
SG550590C	0.550	13.970	0.590	14.986	48	1219
SG675580C	0.675	17.145	0.580	14.732	48	1219
SG675600C	0.675	17.145	0.600	15.240	48	1219



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Typical Performance

Shielding Effectiveness
80 - 115dB

Frequency Range
20Mhz - 10GHz

Dura-Layer Construction
Polyurethane foam core with high-performance fabric

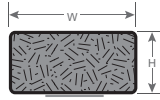
Recommended Compression
30-50% of gasket height

Typical Cross Section Tolerances			
±.010 in.	(0.25 mm) for all dimensions up to	0.04 in.	(1.02 mm)
±.020 in.	(0.50 mm) for all dimensions above	0.04 in.	(1.02 mm)
Detailed part drawings are available upon request.			
Typical Length Tolerances			
0.20 to 6.00 in.	(5 - 152 mm)	±.03 in.	(0.76 mm)
6.01 to 18.00 in.	(153 - 457 mm)	±.06 in.	(1.52 mm)
18.01 to 48.00 in.	(458 - 1219 mm)	±.08 in.	(2.03 mm)

Part Number Explanation				
SG	X X X	X X X	X	- X X . X X
↓	↓	↓	↓	↓
#Start	Height	Width	Profile	Length
*Example: SG125250D-22.50: Gasket .125 tall, .250 wide, D-Shape and 22.5" long				

FSG FOR ELECTRONIC ENCLOSURES *CONT.*

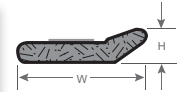
Rectangle Shape						
PART NUMBER	HEIGHT		WIDTH		LENGTH	
SG020157R	0.020	0.508	0.157	3.988	48	1219
SG020197R	0.020	0.508	0.197	5.004	48	1219
SG020275R	0.020	0.508	0.275	6.985	48	1219
SG0391181R	0.039	0.991	1.181	29.997	48	1219
SG039118R	0.039	0.991	0.118	2.997	48	1219
SG040125R	0.040	1.016	0.125	3.175	48	1219
SG0401850R	0.040	1.016	1.850	46.990	48	1219
SG040200R	0.040	1.016	0.200	5.080	48	1219
SG040275R	0.040	1.016	0.275	6.985	48	1219
SG040395R	0.040	1.016	0.395	10.033	48	1219
SG040590R	0.040	1.016	0.590	14.986	48	1219
SG040710R	0.040	1.016	0.710	18.034	48	1219
SG050090R	0.050	1.270	0.090	2.286	48	1219
SG051157R	0.051	1.295	0.157	3.988	48	1219
SG051394R	0.051	1.295	0.394	10.008	48	1219
SG060100R	0.060	1.524	0.100	2.540	48	1219
SG060125R	0.060	1.524	0.125	3.175	48	1219
SG060130R	0.060	1.524	0.130	3.302	48	1219
SG060160R	0.060	1.524	0.160	4.064	48	1219
SG060200R	0.060	1.524	0.200	5.080	48	1219
SG060280R	0.060	1.524	0.280	7.112	48	1219
SG060394R	0.060	1.524	0.394	10.008	48	1219
SG060395R	0.060	1.524	0.395	10.033	48	1219
SG060750R	0.060	1.524	0.750	19.050	48	1219
SG079157R	0.079	2.007	0.157	3.988	48	1219
SG0801000R	0.080	2.032	1.000	25.400	48	1219
SG080100R	0.080	2.032	0.100	2.540	48	1219
SG080160R	0.080	2.032	0.160	4.064	48	1219
SG080200R	0.080	2.032	0.200	5.080	48	1219
SG080500R	0.080	2.032	0.500	12.700	48	1219
SG080750R	0.080	2.032	0.750	19.050	48	1219
SG100200R	0.100	2.540	0.200	5.080	48	1219
SG118118R	0.118	2.997	0.118	2.997	48	1219
SG120155R	0.120	3.048	0.155	3.937	48	1219
SG125250R	0.125	3.175	0.250	6.350	48	1219
SG125375R	0.125	3.175	0.375	9.525	48	1219
SG140250R	0.140	3.556	0.250	6.350	48	1219



Rectangle Shape <i>cont.</i>						
PART NUMBER	HEIGHT		WIDTH		LENGTH	
SG157590R	0.157	3.988	0.590	14.986	48	1219
SG160354R	0.160	4.064	0.354	8.992	48	1219
SG250375R	0.250	6.350	0.375	9.525	48	1219
SG250500R	0.250	6.350	0.500	12.700	48	1219
SG250600R	0.250	6.350	0.600	15.240	48	1219
SG187375R	0.187	4.750	0.375	9.525	48	1219
SG187750R	0.187	4.750	0.750	19.050	48	1219
SG197315R	0.197	5.004	0.315	8.001	48	1219
SG200200R	0.200	5.080	0.200	5.080	48	1219
SG250250R	0.250	6.350	0.250	6.350	48	1219
SG375500R	0.375	9.525	0.500	12.700	48	1219
SG500500R	0.500	12.700	0.500	12.700	48	1219
SG500750R	0.500	12.700	0.750	19.050	48	1219
SG670670R	0.670	17.018	0.670	17.018	48	1219
SG787787R	0.787	19.990	0.787	19.990	48	1219

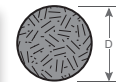
Black = inches
Blue = mm

Knife Edge						
PART NUMBER	HEIGHT		WIDTH		LENGTH	
SG070340K	0.070	1.778	0.340	8.636	48	1219
SG106315K	0.106	2.692	0.315	8.001	48	1219
SG106445K	0.106	2.692	0.445	11.303	48	1219
SG106455K	0.106	2.692	0.455	11.557	48	1219
SG-160600K	0.106	2.692	0.600	15.240	48	1219
SG187236K	0.187	4.750	0.236	5.994	48	1219
SG250750K	0.250	6.350	0.750	19.050	48	1219
SG312707K	0.312	7.925	0.270	6.858	48	1219
SG350750K	0.350	8.890	0.750	19.050	48	1219



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Round Shape			
PART NUMBER	DIAMETER		LENGTH
SG100100Z	0.100	2.540	48 1219
SG125125Z	0.125	3.175	48 1219
SG160160Z	0.160	4.064	48 1219
SG200200Z	0.200	5.080	48 1219



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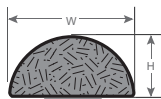
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Typical Cross Section Tolerances		
±.010 in. (0.25 mm)	for all dimensions up to	0.04 in. (1.02 mm)
±.020 in. (0.50 mm)	for all dimensions above	0.04 in. (1.02 mm)
Detailed part drawings are available upon request.		
Typical Length Tolerances		
0.20 to 6.00 in. (5 - 152 mm)	±.03 in. (0.76 mm)	
6.01 to 18.00 in. (153 - 457 mm)	±.06 in. (1.52 mm)	
18.01 to 48.00 in. (458 - 1219 mm)	±.08 in. (2.03 mm)	

Part Number Explanation				
SG	X X X	X X X	X	X X . X X
↓	↓	↓	↓	↓
#Start	Height	Width	Profile	Length
*Example: SG125250D-22.50: Gasket .125 tall, .250 wide, D-Shape and 22.5" long				

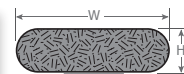
FSG FOR ELECTRONIC ENCLOSURES CONT.

D-Shape						
PART NUMBER	HEIGHT	WIDTH		LENGTH		
SG040150D	0.040	1.016	0.150	3.810	48	1219
SG040200D	0.040	1.016	0.200	5.080	48	1219
SG050140D	0.050	1.270	0.140	3.556	48	1219
SG050250D	0.050	1.270	0.250	6.350	48	1219
SG060125D	0.060	1.524	0.125	3.175	48	1219
SG060150D	0.060	1.524	0.150	3.810	48	1219
SG060250D	0.060	1.524	0.250	6.350	48	1219
SG070135D	0.070	1.778	0.135	3.429	48	1219
SG070180D	0.070	1.778	0.180	4.572	48	1219
SG080080D	0.080	2.032	0.080	2.032	48	1219
SG080160D	0.080	2.032	0.160	4.064	48	1219
SG080394D	0.080	2.032	0.394	10.008	48	1219
SG090090D	0.090	2.286	0.090	2.286	48	1219
SG090150D	0.090	2.286	0.150	3.810	48	1219
SG094200D	0.094	2.388	0.200	5.080	48	1219
SG100300D	0.100	2.540	0.300	7.620	48	1219
SG110180D	0.110	2.794	0.180	4.572	48	1219
SG120150D	0.120	3.048	0.150	3.810	48	1219
SG120250D	0.120	3.048	0.250	6.350	48	1219
SG120360D	0.120	3.048	0.360	9.144	48	1219
SG120475D	0.120	3.048	0.475	12.065	48	1219
SG125187D	0.125	3.175	0.187	4.750	48	1219
SG125250D	0.125	3.175	0.250	6.350	48	1219
SG130190D	0.130	3.302	0.190	4.826	48	1219
SG140250D	0.140	3.556	0.250	6.350	48	1219
SG150250D	0.150	3.810	0.250	6.350	48	1219
SG160240D	0.160	4.064	0.240	6.096	48	1219
SG180400D	0.180	4.572	0.400	10.160	48	1219
SG187250D	0.187	4.750	0.250	6.350	48	1219
SG195260D	0.195	4.953	0.260	6.604	48	1219
SG236236D	0.236	5.994	0.236	5.994	48	1219
SG250375D	0.250	6.350	0.375	9.525	48	1219
SG295355D	0.295	7.493	0.355	9.017	48	1219
SG315630D	0.315	8.001	0.630	16.002	48	1219
SG375500D	0.375	9.525	0.500	12.700	48	1219
SG430500D	0.430	10.922	0.500	12.700	48	1219
SG562709D	0.562	14.275	0.709	18.009	48	1219
SG670670D	0.670	17.018	0.670	17.018	48	1219



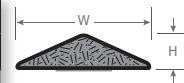
Black = inches
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Oval Shape						
PART NUMBER	HEIGHT	WIDTH		LENGTH		
SG140200E	0.140	3.556	0.200	5.080	48	1219
SG160790E	0.160	4.064	0.790	20.066	48	1219



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Triangle Shape						
PART NUMBER	HEIGHT	WIDTH		LENGTH		
SG098500TR	0.098	2.489	0.500	12.700	48	1219
SG090394TR	0.090	2.286	0.394	10.008	48	1219
SG100400TR	0.100	2.540	0.400	10.160	48	1219
SG140390TR	0.140	3.556	0.390	9.906	48	1219



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P-Shape						
PART NUMBER	HEIGHT	WIDTH		LENGTH		
SG016195P	0.016	0.406	0.195	4.953	48	1219
SG060275P	0.060	1.524	0.275	6.985	48	1219
SG080200P	0.080	2.032	0.200	5.080	48	1219
SG125750P	0.125	3.175	0.750	19.050	48	1219
SG130520P	0.130	3.302	0.520	13.208	48	1219
SG145520P	0.145	3.683	0.520	13.208	48	1219
SG200395P	0.200	5.080	0.395	10.033	48	1219



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Typical Performance

Shielding Effectiveness
80 - 115dB

Frequency Range
20Mhz - 10GHz

Dura-Layer Construction
Polyurethane foam core with high-performance fabric

Recommended Compression
30-50% of gasket height

Typical Cross Section Tolerances			
± 0.010 in.	(0.25 mm) for all dimensions up to	0.04 in.	(1.02 mm)
± 0.020 in.	(0.50 mm) for all dimensions above	0.04 in.	(1.02 mm)
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Typical Length Tolerances			
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6.01 to 18.00 in.	(153 - 457 mm)	± 0.06 in.	(1.52 mm)
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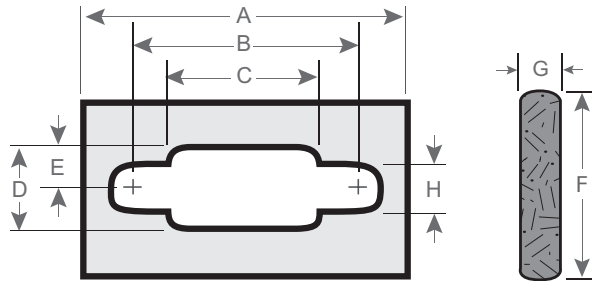
Part Number Explanation				
SG	X X X	X X X	X	X X . X X
↓	↓	↓	↓	↓
#Start	Height	Width	Profile	Length
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FSG FOR ELECTRONIC ENCLOSURES CONT.

D-SUB MINIATURE

very conformable to irregular surfaces.

- Eliminates any gap problem between connector and I/O surface plates. Compresses from .100" to .025" (2.5 to 0.6mm)
- Outside conductive surface is metalized CuNi fabric
- 9, 15, 25, 37 and 50 pin connector gaskets available in stock
- Available with adhesive tape. Please consult factory for ordering information
- Consult factory for custom profiles, thicknesses and sizes available
- For metal option - see page 22



D-Sub Miniature																	
PART NUMBER	TYPE	A		B		C		D		E		F		G		H	
SG140009DS*	9 Pin	1.40	35.6	0.98	24.9	0.78	19.8	0.44	11.2	0.22	5.6	0.7	17.8	0.1	2.5	0.15	3.8
SG175015DS*	15 Pin	1.75	44.5	1.31	33.3	1.11	28.2	0.44	11.2	0.22	5.6	0.7	17.8	0.1	2.5	0.15	3.8
SG228025DS*	25 Pin	2.28	57.9	1.85	7.0	1.65	41.9	0.44	11.2	0.22	5.6	0.7	17.8	0.1	2.5	0.15	3.8
SG293037DS*	37 Pin	2.93	74.4	2.50	63.5	2.29	58.2	0.44	11.2	0.22	5.6	0.7	17.8	0.1	2.5	0.15	3.8
SG284050DS*	50 Pin	2.84	72.1	2.41	61.2	2.20	55.9	0.55	14.0	0.28	7.1	0.8	20.3	0.1	2.5	0.15	3.8

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Typical Performance

Shielding Effectiveness
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Frequency Range
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Dura-Layer Construction
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↓	↓	↓	↓	↓
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