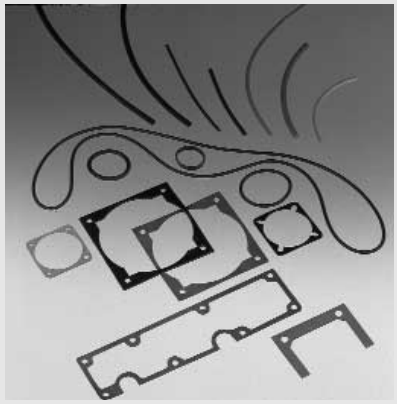
CONDUCTIVE ELASTOMER

Features

- The Kitagawa Electrically Conductive Elastomers offer excellent shielding and environmental sealing. They are offered in a range of materials and outlines to meet various applications.



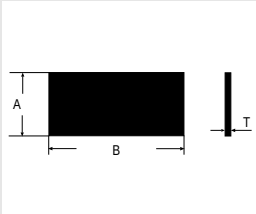
Dimension + Technical Data

Material:				Conductive particles (nickel) in Silicon
Shore A hardness:				68 +/- 6
Volume resistivity	(Ohm / cm)			0.1
Temperature range	(°C)			-55 to +200
Density	(g/cm^3)			3.5
Tensile strength	(%)			75
Colour				black
Shielding effectiveness	(dB)	H-Field	10 KHz	72
		E-Field	1 MHz	115
		P-Field	1 GHz	85

Standard Sheets - PL -

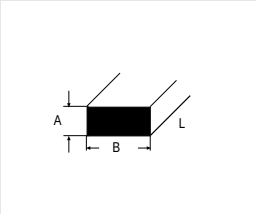
Part No.	A(mm)	B (mm)	T (mm)	Tolerance (mm)
SG-PL-	200.00	-200.00	-0.50	+/- 0.08
SG-PL-	200.00	-200.00	-0.80	+/ - 0.08
SG-PL-	200.00	-200.00	-1.00	+/ - 0.10
SG-PL-	200.00	-200.00	-1.50	+/ - 0.12
SG-PL-	200.00	-200.00	-2.00	+/ - 0.18

Custom Gaskets can be cut to customer specification!



Rectangular Strips - R E -

Part No.	A (mm)	B (mm)	L (mm)	Tolerance (mm) A	Tolerance (mm) B
SG-RE-	1.00	-3.00	-1.500.00	+/ - 0.08	+/ - 0.12
SG-RE-	1.50	-3.00	-1.500.00	+/ - 0.12	+/ - 0.12
SG-RE-	2.00	-2.50	-1.500.00	+/ - 0.18	+/ - 0.12
SG-RE-	2.00	-3.00	-1.500.00	+/ - 0.18	+/ - 0.12
SG-RE-	2.00	-4.00	-1.500.00	+/ - 0.18	+/ - 0.12



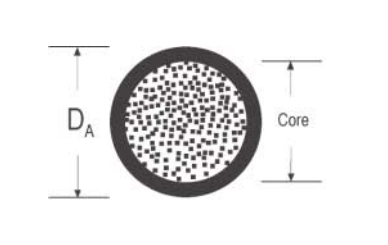
CONDUCTIVE ELASTOMER

Features

- The Kitagawa Conductive Elastomer EMI-Gaskets feature an abrasion-resistant, silver-filled elastomer applied over a non-conductive extruded silicon core.

Technical data (coating only)

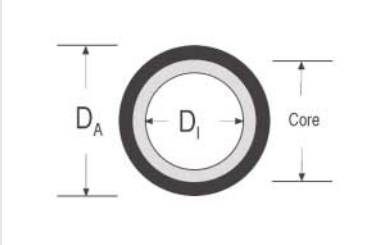
Material:				Ag/Cu particles in Silicon
Volume resistivity	(Ohm / cm)			0,008
Temperature resistance	(°C)			125
Density	(g/cm^3)			3,6
Coating thickness	(mm)			0,15 +/-0,05
Breaking elongation	(%)			125
Colour				beige
Shielding effectiveness	(dB)	H-Field	10 kHz	67
		E-Field	1 MHz	130
		P-Field	1 GHz	110



Elastomer core:
Silicon foam (non conductive)

Density	0,43 g/cm^3
Shore A hardness	15° +/- 5
Breaking elongation	>90 %
Compression Set	< 40 %
Temperature resistance	-50/+200° C

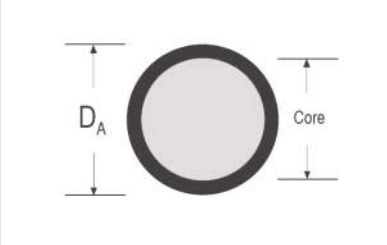
Part No. D_A (mm)	Tolerance (mm)
SG-FO-1.40	+/- 0.15
SG-FO-1.80	+/- 0.18
SG-FO-2.00	+/- 0.18
SG-FO-2.30	+/- 0.20
SG-FO-2.50	+/- 0.25
SG-FO-2.80	+/- 0.25
SG-FO-3.00	+/- 0.25
SG-FO-3.30	+/- 0.25
SG-FO-3,80	+/- 0.30
SG-FO-4.00	+/- 0.30
SG-FO-4.30	+/- 0.30
SG-FO-4.50	+/- 0.30
SG-FO-4.80	+/- 0.35
SG-FO-5.00	+/- 0.35
SG-FO-5.30	+/- 0.35
SG-FO-5.50	+/- 0.35
SG-FO-6.00	+/- 0.35
SG-FO-6.50	+/- 0.35



Elastomer core:
Silicon tube (non conductive)

Density	1,14 g/cm^3
Shore A hardness	60°+/-6
Breaking elongation	>45 %
Compression Set	< 35 %
Temperature resistance	-50/+200° C

Part No. D_A D_I(mm)	Tolerance (mm)
SG-TU- 0.50 -1.30	+/- 0.15
SG-TU- 0.50 -1.50	+/- 0.15
SG-TU- 0.50 -1.60	+/- 0.12
SG-TU- 0.80 -1.80	+/- 0.20
SG-TU- 0.80 -2.00	+/- 0.20
SG-TU- 0.80 -2.10	+/- 0.20
SG-TU- 1.00 -2.30	+/- 0.20
SG-TU- 1.00 -2.80	+/- 0.25
SG-TU- 1.00 -3.00	+/- 0.26
SG-TU- 1.50 -3.00	+/- 0.25
SG-TU- 1.50 -3.30	+/- 0.25
SG-TU- 1.50 -3.60	+/- 0.25
SG-TU- 1.50 -4.10	+/- 0.25
SG-TU- 2.00 -4.80	+/- 0.30
SG-TU- 2.00 -5.30	+/- 0.30
SG-TU- 2.00 -5.80	+/- 0.35



Elastomer core:
Silicon solid round (non conductive)

Density	1,08 g/cm^3
Shore A hardness	60° +/- 7
Breaking elongation	>180 %
Compression Set	< 35%
Temperature resistance	-50/+200° C

Part No. D_A (mm)	Tolerance (mm)
SG-RO-1.20	+/- 0.12
SG-RO-1.50	+/- 0.12
SG-RO-1.80	+/- 0.15
SG-RO-2.00	+/- 0.15
SG-RO-2.30	+/- 0.15
SG-RO-2.50	+/- 0.20
SG-RO-2.80	+/- 0.20
SG-RO-3.00	+/- 0.20
SG-RO-3.30	+/- 0.20
SG-RO-3.50	+/- 0.25
SG-RO-3.80	+/- 0.25
SG-RO-4.00	+/- 0.25
SG-RO-4.30	+/- 0.25
SG-RO-4.50	+/- 0.30
SG-RO-4.80	+/- 0.30