

Conductive elastomer



The conductive elastomer are made by metal powder and silicon. It has excellent EMI shielding effectiveness and environment sealing and long life time. The conductive fillers are nickel graphite, silver glass, silver aluminum, silver copper.

We have standard size and shapes, we could also extruded, molded and die-cut any shapes or size as the customer design and requirements.

Specifications

Conductive Particles	Carbon	Nickel Graphite	Silver Glass	Silver Nickel	Silver Aluminum	Silver Copper	Silver Low Density
MIL-G-83528 Type	N/A	N/A	M	L	B, D	A, C, K	J
Operating Temperature							
Min (°C)	-55	-55	-55	-55	-55	-55	-55
Max (°C)	175	200	200	180	200	125	160
Specific Gravity	1.2	1.95	1.8	4	2	3.5	1.7
Hardness (Shore A) Durometer	70	70	65	75	65	65/75/85	45
Compression Deflection (% min)	3.5	3.5	3.5	3.5	3.5	3.5	8
Tensile Strength (lbs/sq-in)	450	150	200	200	200	200	150
Elongation (%)	3.5	3.5	3.5	3.5	3.5	3.5	8
Volume Resistivity (ohm-cm)	8	0.1	0.005	0.005	0.008	0.004	0.001
Shielding Effectiveness (20mhz-10ghz)	40	80	110	100	110	110	80
EMP survivability	yes	yes	yes	yes	yes	yes	yes

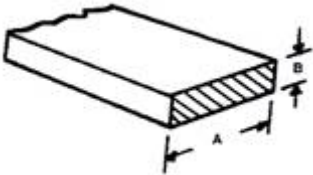
AC = Silver Copper
NG = Nickle Graphite

Flat sheet Unit: mm

THICKNESS	Tolerance	Width×Length			
		254×254	254×381	381×508	457×457
0.51	±0.10				
0.81	±0.13				
1.02	±0.15				
1.57	±0.18				

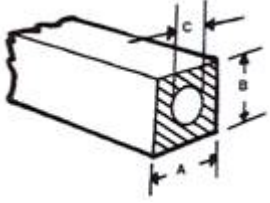
Rectangular Strip Unit: mm

Part No.	Size		Part No.	Size	
	A	B		A	B
4000-0100	1.60	1.07	4000-0120	3.96	1.57
4000-0105	2.41	1.57	4000-0125	6.35	1.57
4000-0110	3.05	1.91	4000-0130	12.70	1.91
4000-0115	3.18	1.57	4000-0135	12.70	3.18



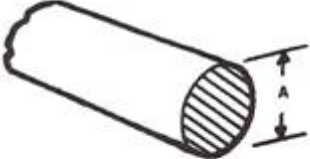
Hollow rectangular tube Unit: mm

Part No.	size		
	A	B	C
4100-0100	8.38	7.75	3.18
4100-0105	9.53	9.53	4.78



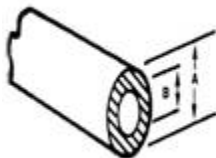
Round shape strip Unit: mm

Part No.	A	Recommend notch size		Part No.	A	Recommend notch size	
		W	H			W	H
4200-0100	1.02	1.27	0.76	4200-0130	2.62	3.00	1.88
4200-0105	1.35	1.57	1.02	4200-0135	2.84	3.07	2.34
4200-0110	1.57	1.78	1.19	4200-0140	3.02	3.30	2.29
4200-0115	1.78	2.11	1.27	4200-0145	3.18	3.53	2.36
4200-0120	2.03	2.29	1.52	4200-0150	3.30	3.50	2.72
4200-0125	2.36	2.62	1.78	4200-0160	3.53	3.99	2.56
4200-0175	5.49	6.12	4.06	4200-0165	3.81	4.01	3.12
4200-0180	6.35	6.98	4.75	4200-0170	4.06	4.27	3.33



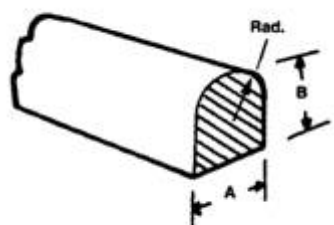
Hollow round tube Unit: mm

Part No.	Diametre		Notch size		Part No.	Diametre		Notch size	
	A	B	W	H		A	B	W	H
4300-0100	3.18	1.14	3.30	2.23	4300-0130	11.10	6.35	7.52	11.40
4300-0105	3.96	1.27	4.06	2.76	4300-0090	2.29	1.27	2.36	1.55
4300-0110	6.35	3.18	5.71	3.81	4300-0095	2.62	1.02	2.72	1.85
4300-0120	7.92	4.88	8.05	3.96	4300-0101	3.18	1.57	3.30	1.95
4300-0125	9.53	6.35	9.65	4.49	4300-0104	3.68	1.78	--	--



D shape strip Unit: mm

Part No.	Size			Recommend notch size	
	A	B	R(rad)	W	H
4400-0100	1.63	4.10	0.79	--	--
4400-0105	1.57	1.73	0.79	1.65	1.29
4400-0110	2.39	1.98	1.19	2.46	1.50
4400-0115	1.98	2.26	0.99	2.03	1.67
4400-0120	1.57	2.54	0.78	1.65	1.90
4400-0125	3.81	2.79	1.91	3.93	2.10
4400-0130	3.10	3.43	1.55	3.17	2.56
4400-0135	3.00	3.96	1.49	3.04	2.97
4400-0140	4.52	4.45	2.26	4.60	3.32
4400-0145	6.35	6.35	3.18	6.47	4.75



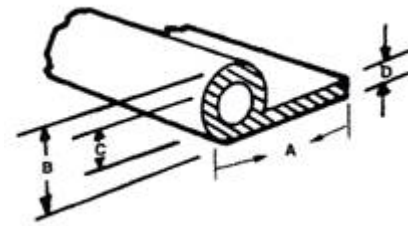
Hollow D tube Unit: mm

Part No.	Size				Notch Size	
	A	B	R(rad)	C	W	H
4500-0100	3.96	3.96	1.98	1.14	4.06	2.36
4500-0105	4.75	4.75	2.36	1.27	4.90	2.71
4500-0110	6.35	6.35	3.18	1.65	6.47	3.81
4500-0120	7.92	7.92	2.84	1.57	8.12	4.49
4500-0125	12.37	12.37	6.20	2.03	12.70	6.35



P shape strip Unit: mm

Part No.	Size			
	B	C	A	D
4600-0100	5.08	2.03	21.59	1.57
4600-0101	5.08	2.03	12.07	1.57
4600-0105	6.35	3.18	12.70	1.57
4600-0110	6.35	3.18	15.88	1.57
4600-0120	6.35	3.81	15.88	1.57
4600-0125	7.92	4.75	22.22	1.57
4600-0130	9.14	6.48	19.81	1.79
4600-0136	3.56	2.54	6.99	0.76



U Shape strip Unit: mm

Part No.	Size			
	A	B	C	D
4700-0100	2.54	2.54	0.86	0.84
4700-0105	3.20	2.79	0.64	1.27
4700-0110	3.20	5.72	0.51	1.91
4700-0115	3.96	3.96	1.57	1.19
4700-0120	4.45	3.96	1.19	1.91
4700-0125	8.31	5.97	1.57	1.57

