

Fabric Gasket (Shield Form Gasket, Gold Gasket)

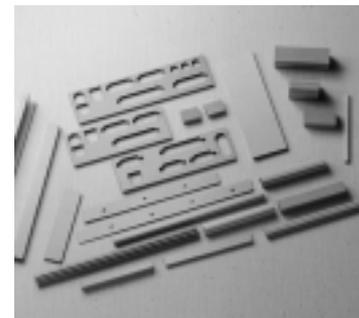
■ General Description

AMIC's Fabric Gaskets consist of conductive cloths and elastic sponge. The conductive cloths is wrapped over the elastic sponge.

These Fabric Gaskets have been designed to meet commercial EMI Shielding application where wide tolerance gaps exist. Fabric Gaskets are very easy to use and very useful in many applications.

AMIC's patented unique designed Fabric Gasket provides good shielding effects and they have meet UL requirements.

Especially the new AMIC's Gold Gasket which are using Gold plated fabric(24Kdex®) can provide better conductivity, minimum oxidation and no allergy to human body. So, AMIC's Gold Gasket provides the best quality for various applications.



Patented No. 0231301 No. 0245629,
 No. 0182453 No. 215520,
 No. 0180345
 UL Approved No. E206305, E97513, 94V-0

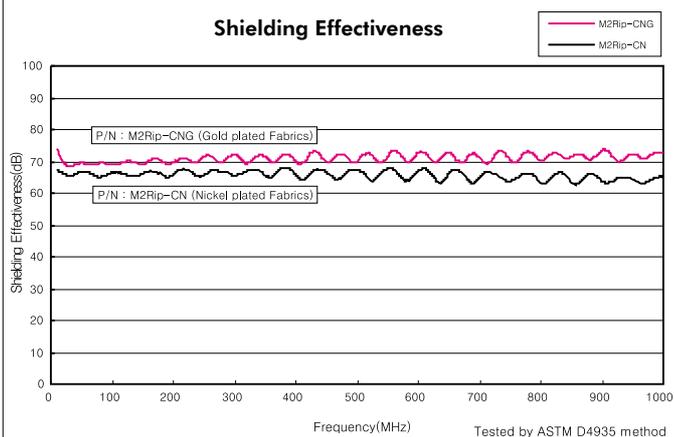
■ Characteristics

- Shielding Effectiveness : Min. 60dB(30MHz~1GHz),
 (by ASTM D4935)
- Surface resistivity : Max. 0.08Ω/□
- Operating Temperature Range : Max. 105°C
- Meet UL requirements
- Flammability : UL94V-0 approved
- Gold effects (Gold Plated Fabric)

■ Approval (Flammability)

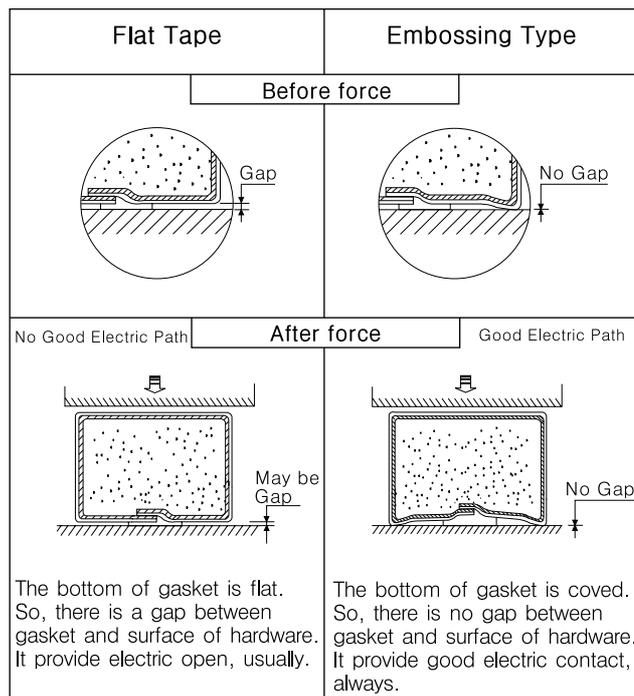
- Elastomer Sponge; 94HF-1
 Meet UL94 (E97513)
- Conductive Fabric; 94VTM-0
 Meet UL94 (E206305)
- Fabric Gasket; UL94V-0
 Meet UL94 (E206305)

Quality Performance of AMIC Fabric Gaskets



□ Enhanced Benefits of Embossing

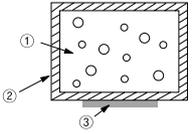
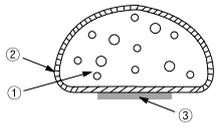
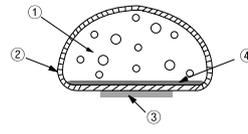
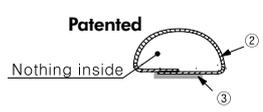
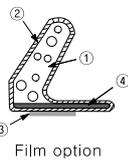
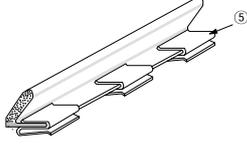
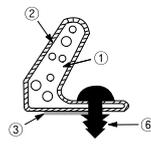
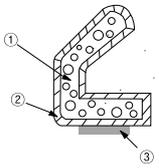
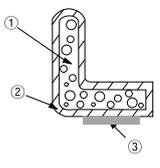
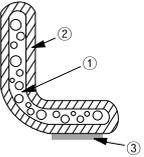
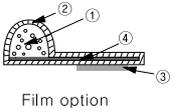
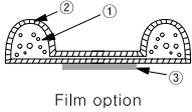
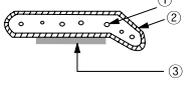
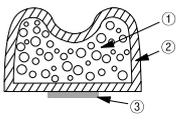
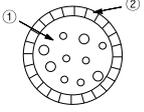
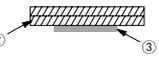
- Excellent strong contact due to using of non-conductive tape
- Grounding effect due to direct contact with conductive fabric
- Cost Saving



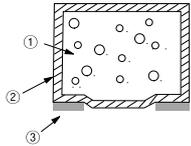
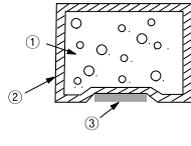
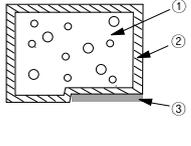
Construction

■ Other shapes are available on request.

- Flat Type (Standard)

Rectangular Shape	"RN" Shape	"RS" Shape	"N" Shape	
			Patented Nothing inside 	
"LS" Shape	Metal Clip for "LS" Shape	Push Rivet for "LS" Shape	"LN" Shape	"LT" Shape
 Film option				
"LR" Shape	"P" Shape	"PP" Shape	"U" Shape	
	 Film option	 Film option		
"W" Shape	"RR" Shape	"F" Shape	<ul style="list-style-type: none"> ① Elastomer Sponge ② Conductive Cloths ③ Pressure Sensitive Adhesive ④ Support : Thermoplastic (Semi-Rigid) ⑤ Metal Clip : See Finger Strip page ⑥ Push Rivet 	
				

- Embossing Type (The height of this products is more than 4.0mm)

"OE" Shape	"IE" Shape	"SE" Shape
		

■ Inquires are invited concerning other cross sections and sizes.

How to order (Standard Products)

P/N : 71TS F R - XX - RN - YY - ZZ - 00 - D
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Serial Description (Fabric Gasket = Shield Form)
- ② Type of Sponge
F(PU Foam 45kg), **U**(PU Foam 45kg + Flame Retardant fabric), **S**(PU Foam 34kg + Retardant fabric),
W(PU Foam 45kg white + Flame Retardant fabric), **H**(Hard Rubber Sponge 80kg),
C(EPDM), **N**(Neoprene), **E**(EVA 55°)
- ③ Type of fabric
R:Ripstop(Cu,Ni plating), **K**:Plain Woven(Cu,Ni plating), **B**:Nonwoven(Cu,Ni plating)
D:DTY(Cu,Ni plating), **G**:Plain Woven(Cu,Ni,Au plating), **C**:Plain Woven(Cu,Ni plating + Carbon coating),
P:Plain Woven(Non plating), **S**:Non Fabric (only sponge), **A**: New Al Foil, **AL**: Al Foil
- ④ Width of Fabric Gasket(mm)
- ⑤ Type of Fabric Gasket Shape
Non:Rectangular Type(Standard), **RN, RS, N, LS, LN, LT, LR, P, PP, U, W, RR, F, OE, IE, SE**
- ⑥ Height of Fabric Gasket(mm)
- ⑦ Length of Fabric Gasket(mm)
- ⑧ Type of Pressure Sensitive Adhesive Tape
00:Non conductive Tape, **11**:Conductive Tape(Al), **13**:Conductive Tape(Mesh)
22:Conductive Tape(Al) + Non conductive Tape, **23**:Conductive Tape(Mesh) + Non conductive Tape
33:None Tape, **44**:Flame Retardant Conductive Tape(Al)
 in case, Mesh clip for "LS" shape ⇒ **F1**(EXF-001), **F2**(EXF-002)
 Push Rivet for "U" shape ⇒ **PS**(Push Rivet)
- ⑨ **None**:Standard, **D**:Refer to Drawing, **S**:Press

- Shield Form UL Approved (File No:E206305)

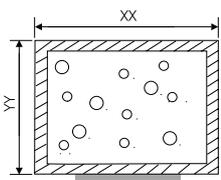
P/N	UL94 Flame Class
71TS U	HBF
71TS W	V-0
71TS W\$00	HBF
71TS W\$13	HF-1
71TS W\$44	V-0

D-Sub Shape P/N

P/N : 71TS F R - XX - RN - YY - ZZ - 00 - 9
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Serial Description
- ② Type of Sponge
F(PU Foam 45kg), **U**(PU Foam 45kg + Flame Retardant fabric), **S**(PU Foam 34kg + Retardant fabric),
W(PU Foam 45kg white + Flame Retardant fabric), **H**(Hard Rubber Sponge 80kg),
C(EPDM), **N**(Neoprene)
- ③ Type of fabric
R:Ripstop(Cu,Ni plating), **K**:Plain Woven(Cu,Ni plating), **B**:Nonwoven(Cu,Ni plating)
D:DTY(Cu,Ni plating), **G**:Plain Woven(Cu,Ni,Au plating), **C**:Plain Woven(Cu,Ni plating + Carbon coating),
P:Plain Woven(Non plating), **S**:Non Fabric (only sponge), **AL**:Aluminum Foil, **A**: New Al Foil
- ④ Width of Fabric Gasket(mm)
- ⑤ Type of Fabric Gasket Shape
Non:Rectangular Type(Standard), **RN, RS, N, LS, LN, LT, LR, P, PP, U, W, RR, F, OE, IE, SE**
- ⑥ Height of Fabric Gasket(mm)
- ⑦ Length of Fabric Gasket(mm)
- ⑧ Type of Pressure Sensitive Adhesive Tape
00:Non conductive Tape, **11**:Conductive Tape(Al), **13**:Conductive Tape(Mesh)
22:Conductive Tape(Al) + Non conductive Tape, **23**:Conductive Tape(Mesh) + Non conductive Tape
33:None Tape, **44**:Flame Retardant Conductive Tape(Al)
- ⑨ **Pin No**:9pin, 15pin, 25pin, 37pin, 50pin

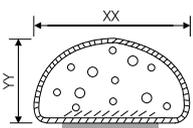
Rectangular Shape



EX) P/N : 71TS V K - 10 - 5 - 1000 - 00
 Serial No. | UL94V-0 | Nickel plated Woven Fabric | Width:10mm | Height:5mm | Length:1000mm | Non-Conductive tape (P/N:DN-12)

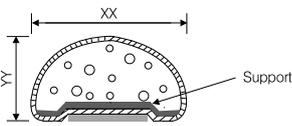
Please see page 9 for order.

"RN" Shape

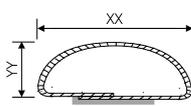


EX) P/N : 71TS V G - 10 - RN5 - 500 - 00
 Serial No. | UL94V-0 | Gold plated Woven Fabric | Width:10mm | Shape & height:5mm | Length:500mm | Non-Conductive tape (P/N:DN-12)

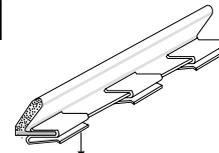
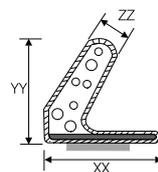
"RS" Shape (with support)



"N" Shape (Nothing inside)

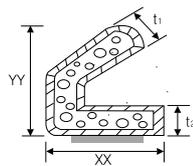


"LS" Shape



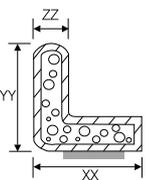
Metal Clip for "LS" Shape
 (P/N : EXF-001 for 6mm width and EXF-002 for 10mm width)

"LN" Shape

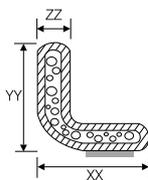


EX) P/N : 71TS V R - 12 - LN12 - 600 - 13
 Serial No. | UL94V-0 | Nickel plated Rip fabric | Width:12mm | Shape & height:12mm | Length:600mm | Conductive tape(P/N:DK-1042)

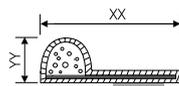
"LT" Shape



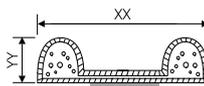
"LR" Shape



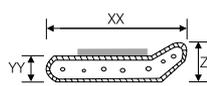
"P" Shape



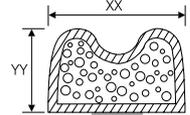
"PP" Shape



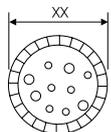
"U" Shape



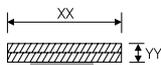
"W" Shape



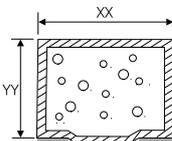
"RR" Shape



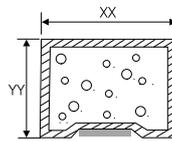
"F" Shape



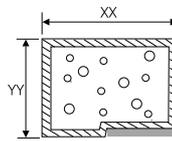
"OE" Shape



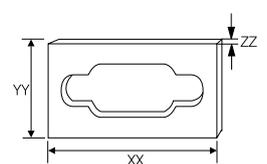
"IE" Shape



"SE" Shape

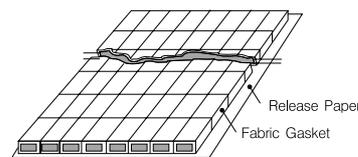


"D-Sub" Shape

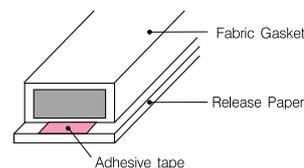


How to packing for small and big size

AMIC's unique packing methods provide our customers with very good productibility and inventory stock control. This method is applying to small and big size in mass production. AMIC also provide 1000mm per a piece as standard length for customer inventory.

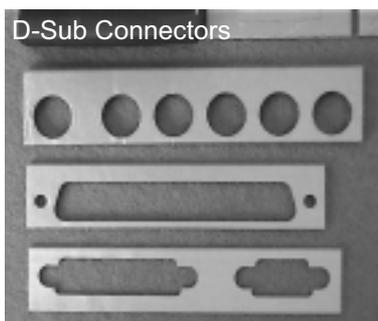
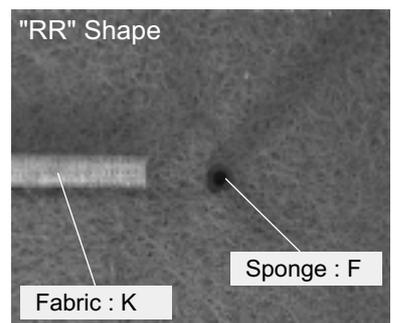
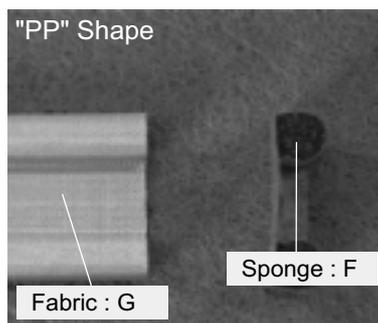
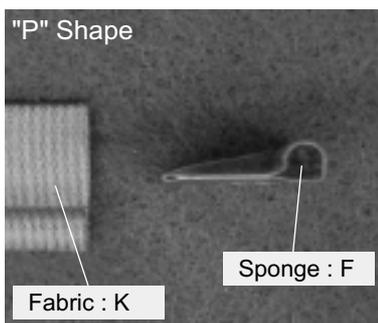
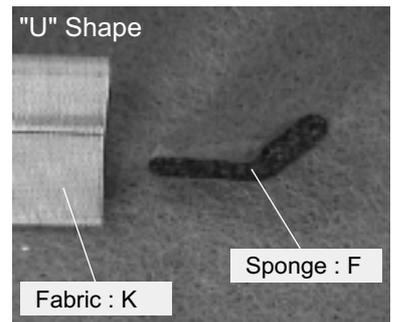
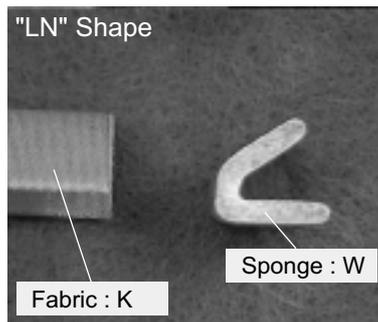
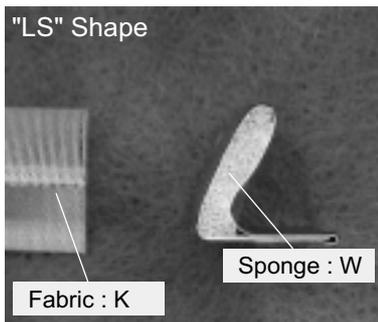
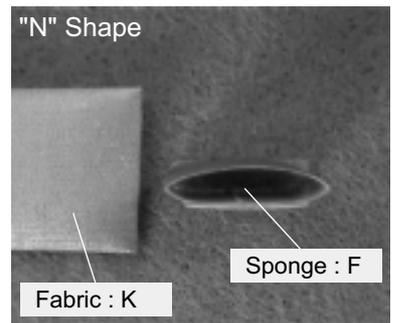
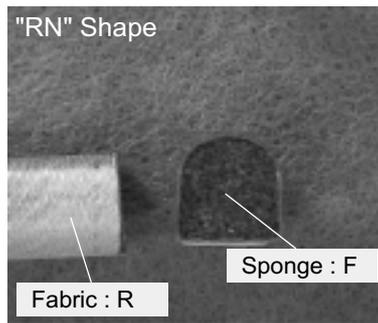
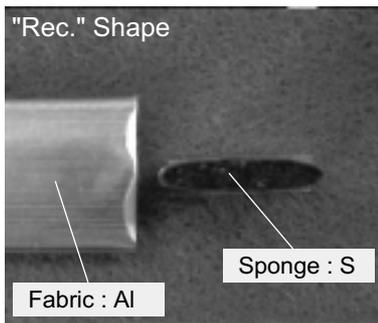
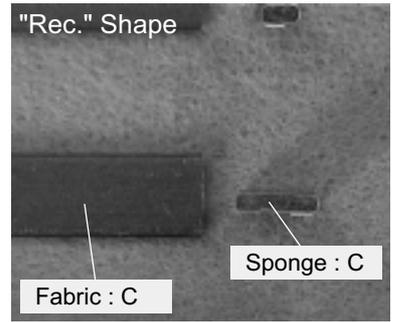
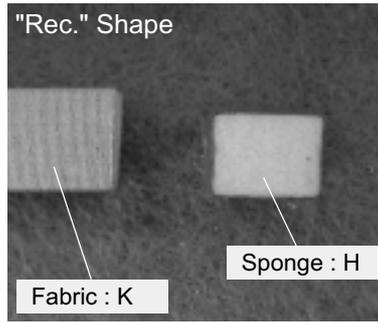
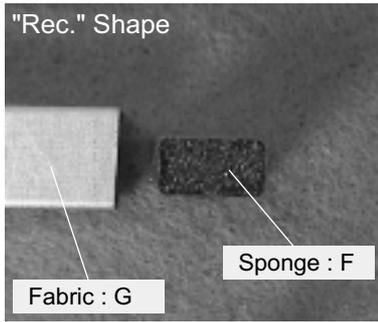


Small Sizes



Big Sizes

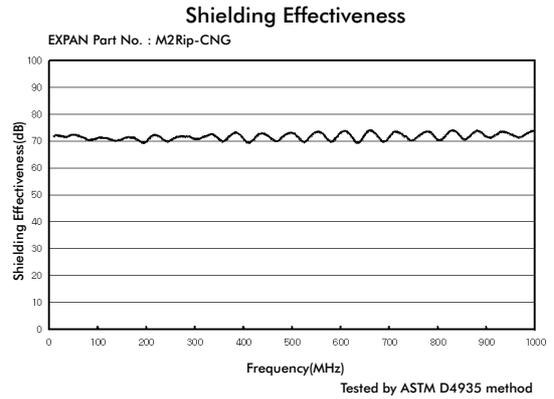
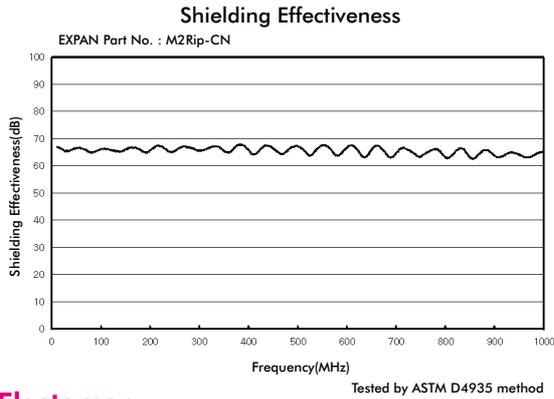
■ Figure for Shield Form Products



■ Specification of raw materials (Standard type of Fabric Gasket)

① Conductive Fabrics

Part Number	Material(PET) Cons./metal	Thickness(mm)	Tensile Strength CD/MD(kg)	Surface Resistivity (Ω/\square)	Min. Shielding Effectiveness (dB) under 1GHz	Remark
M2Rip-CN	Ripstop Cu + Ni	0.09	35/45	≤ 0.08	60	See page 18
M2Rip-CNK	Woven Cu + Ni	0.1	40/45	≤ 0.08	62	
M2Rip-CNG	Woven Cu + Au	0.1	40/45	≤ 0.07	65	



② Elastomer

Contents	Specification	
Material	Polyurethane Foam	Polyurethane Foam
Density (Kg/m ³)	32 ± 3	45 ± 3
Tensile Strength (kg-f/cm ²)	Min. 0.8	Min. 1
Elongation (%)	Min. 150	Min. 100
Tear Strength (N/m)	Min. 0.4	Min. 1.0
Compression Set (%)	Max. 20	Max. 20
Flammability (UL)	Flammable	94HF-1

③ Adhesive Tape

Part Number	Thickness (mm)	Contact Resistivity (Ω/in^2)	Max. Operating Temp. (°C)	Adhesive Strength (180° Peel off) (g/peel speed 300mm/min)	Remark
DK-1042	0.11	0.5	105	Min. 800	Conductive Adhesive Flexible
110 QJ	—	—	105	Min. 1500	Non Conductive Adhesive

④ Compression-Deflection and Conductivity-Deflection of Fabric Gasket

