

SHAANXI SHINHOM ENTERPRISE CO.,LTD



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Product Category

RF Coaxial Connectors
RF Coaxial Adapters

Integrated Connectors

Rectangular Connectors
(MDM connectors)

RF Cable Assemblies

Waveguide Adapters
-Cable assemblies

Microwave Rotary Joints

Tools
Other products

RF Coaxial Connectors

The Frequency Range of Elite Electronic RF Connector

Connector	Frequency											
	3GHz	10GHz	15GHz	20GHz	25GHz	30GHz	35GHz	40GHz	45GHz	50GHz	65GHz	67GHz
1.85												67GHz
CSMP											65GHz	
2.4										50GHz		
SSMP										50GHz		
D4										50GHz		
2.92								40GHz				
SMP								40GHz				
3.5							33GHz					
SSMA						30GHz						
SBMA						28GHz						
ASMP						26.5GHz						
SMA				18GHz								
BMA				18GHz								
4.3-10		12GHz										
SMC		11GHz										
N		11GHz										
TNC		11GHz										
7/16	7.5GHz											
MCX	6GHz											
MMCX	6GHz											
SMB	4GHz											
BNC	4GHz											
SSMB	3GHz											

Between Series Adapters

- SMA to SSMA
- SMA to SMP
- SMA to MCX
- SMA to SMP
- RPSMA to SMA
- SMA to CP
- BNC to SMA
- SMA to SMB
- N to SMA
- TNC to SMA
- N to BNC
- SMA to SSMC
- N to 3.5mm
- K(2.92mm) to SSMP
- K (2.92mm)to SMP
- 3.5mm to 2.4mm
- 3.5mm to K(2.92mm)
- K(2.92mm) to 2.4mm



In-series Adapters

- BNC to BNC
- N to N
- SC to SC
- SMA to SMA
- SMB to SMB
- SMP to SMP
- SSMP to SSMP
- SSMA to SSMA
- 3.5mm to 3.5mm
- K(2.92mm) to K(2.92mm)
- 2.4mm to 2.4mm



RF Cable Assemblies

Connector A	Cable Type	Connector B	Note
ASMP BMA BNC	Flexiable series	ASMP BMA BNC	Most used cable: *RG series *Semi-flexible /rigid Cables
CSMP D4 4.3-10	CXN series(Low Loss Temperature Stable Phase Series)	CSMP D4 4.3-10	
MCX MMCX MSSM	MF soft series	MCX MMCX MSSM	
N Type 7/16 DIN	SF soft series(The flexible low loss cable of HUBER+SUHNER)	N Type 7/16 DIN	
QSA QSB QSSB	EF series(Eco-friendly)	QSA QSB QSSB	
SBMA SC SMA	Super soft series	SBMA SC SMA	
SMB SMC SMP	Armored test series	SMB SMC SMP	
SSMA SMMB SSMP	RG series	SSMA SMMB SSMP	
TNC TNCA TMA	Customized series	TNC TNCA TMA	
1.85mm 3.5mm		1.85mm 3.5mm	
K(2.92mm) 2.4mm		K(2.92mm) 2.4mm	



Waveguide to Coax Adapters

Coaxial type:

N, TNC, SMA, 3.5, 2.4, SMP, SSMP

Wave-guide:

BJ84 ~ BJ500(WR112~WR18)

Structure:

end launch, right angle launch

Waveguide bandwidth:

All bandwidth

20% bandwidth

Frequency Range:

6.5~50GHz

Material:

Aluminum

Copper



Cross-references of waveguide Standards

Frequency Range GHz	Chinese Standards	International Standards
1.13~1.73	BJ14	WR650
1.45~2.20	BJ18	WR510
1.72~2.61	BJ22	WR430
2.17~3.30	BJ26	WR340
2.60~3.95	BJ32	WR284
3.22~4.90	BJ40	WR229
3.94~5.99	BJ48	WR187
4.64~7.05	BJ58	WR159
5.38~8.17	BJ70	WR137
6.57~9.99	BJ84	WR112
8.20~12.5	BJ100	WR90
9.84~15.0	BJ120	WR75
11.9~18.0	BJ140	WR62
14.5~22.0	BJ180	WR51
17.6~26.7	BJ220	WR42
21.7~33.0	BJ260	WR34
26.3~40.0	BJ320	WR28
32.9~50.1	BJ400	WR22
39.2~59.6	BJ500	WR18
49.8~75.8	BJ620	WR14
60.5~91.9	BJ740	WR12
73.8~112	BJ900	WR10

Waveguide Cable Assemblies

Cable type:

SF101E,SF102E,MF30,SF103E,
SF104E,MF90,CXN3450

Wave-guide:

BJ84 ~ BJ500(WR112~WR18)

Structure:

end launch, angle type



Waveguide bandwidth:

20% bandwidth

Frequency Range:

4~70GHz

VSWR:

≤1.3

High temperature:

+400°C



Data of most used RF low loss soft cable

Cable Type	Cable OD	Cable Loss (dB/m)												
		4GHz	6GHz	8GHz	10GHz	12GHz	15GHz	18GHz	20GHz	26.5GHz	30GHz	36GHz	40GHz	50GHz
SF101E	Φ3.6	0.98	1.21	1.42	1.59	1.75	1.98	2.18	2.31	2.70	2.89	3.20	3.40	3.86
SF102E	Φ3.9	0.85	1.05	1.22	1.37	1.51	1.70	1.87	1.98	2.31	2.47	2.73	2.89	
MF30	Φ4	0.76	0.93	1.09	1.22	1.36	1.53	1.70	1.82	2.12	2.28	2.55	2.71	
SF103E	Φ4.4	0.66	0.81	0.95	1.07	1.18	1.33	1.46	1.55	1.81	1.94			
SF104E	Φ5.5	0.54	0.67	0.78	0.88	0.97	1.10	1.21	1.29	1.51				
MF90	Φ5.3	0.67	0.83	1.00	1.11	1.22	1.39	1.54	1.65	1.93				
CXN3450	Φ7.4	0.31	0.38	0.44	0.50	0.55	0.62	0.68						

Microwave Rotary Joints

Types:

Single channel coaxial series
Double-channel series
Three-channel series
Four-channel series
MMW series

Features:

Small Standing Wave
Low Loss
High Integration
Small Phase Fluctuation

Application:

Used in microwave equipment of
radar/navigation/detection,etc.



Integrated Connectors

Types:

RF integrated
High and low frequency mixing

Channel shielding efficiency:
 $\geq 80\text{dB}$

Shape:

Rectangular, Circular

Frequency Range:

DC~40GHz



Features:

- ✓ Multiple signals can be connected and transmitted at the same time.
- ✓ High efficiency of connection
Convenient for system maintenance
- ✓ Won National Defense Science and Technology Progress Award
- ✓ Various types of signals can be integrated, such as RF, current, optical fiber, differential, etc.



Miniaturized Rectangular Connectors(MDM)

Types:

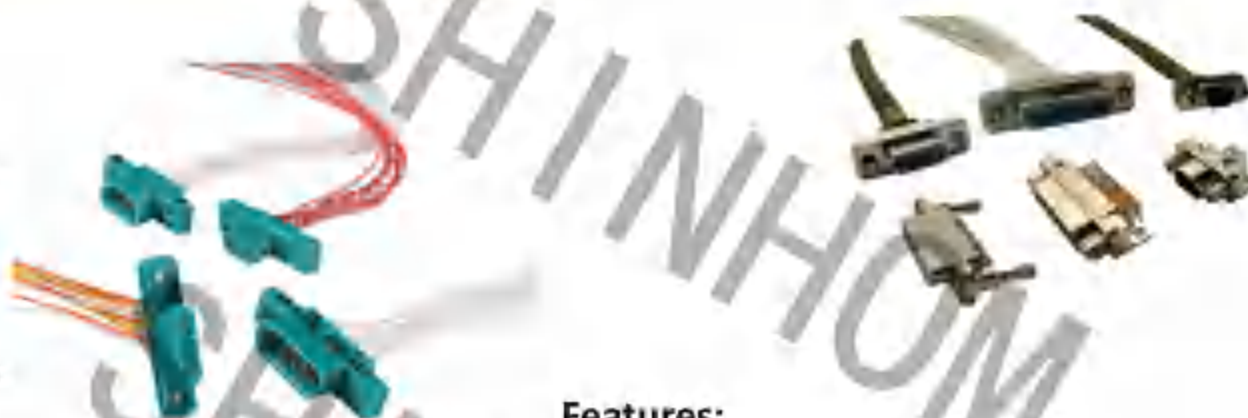
J30J series
J30JM(Hermetic) series
J30(Plastic) series
J50J series
J55A series
J55AM(Hermetic) series
J56J series

Applications:

- ✓ Avionics, radars
- ✓ Missiles and guidance systems
- ✓ On-board equipment
- ✓ Telecommunication systems
- ✓ Navigation systems
- ✓ Research centres
- ✓ Medical applications
- ✓ Cable to Cable
- ✓ Board to Cable
- ✓ Surface Mount (SMT) Board to Cable

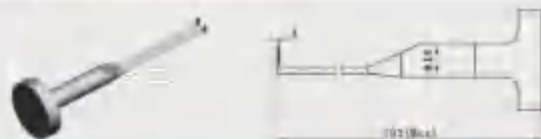
Features:

- 0.635mm,1.27mm,1.91mm contact spacing
- 1, 2, 3,4 row options
- 9-100 contacts
- MIL-DTL-83513 qualification
- Straight, right-angle models choice
- Space and weight saving.
- Excellent resistance to shock and vibration.
- Low contact resistance, high current capability, high dielectric strength.
- Custom designed connectors and cable assemblies.



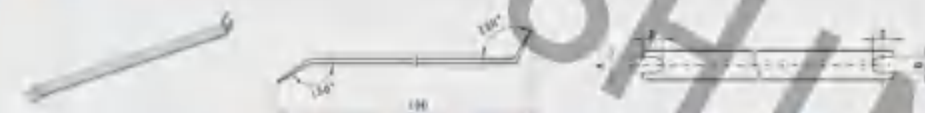
Tools

- Puller for connector with cable



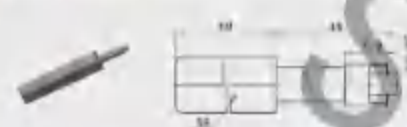
Model Element	#	%	Typical adaptation products
G1007	1	3.1	SWP-KFS06-2 SWP-KB2
G1003	1	3.6	SWP-KFS06-3
G1007	1	4.03	SWP-K004-1
G1037	0.7	3.2	SWP-KF183 SWP-KFS06-3c

■ Disassembling tooling



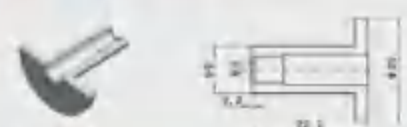
Model Number	A	B	Typical adaptation products
QT604	1.2	3.6	SMP-KR02 SMP-KR02A
QT612	1.4	3.4	SMP-KR0300

- Torque wrench



Model Number	Typical adaptation products
QT665	SW-17042 SW-17054

- Puller for adaptor



Model Number	Typical adaptation products
DT034	SMP-FE7

■ Insertion and Extraction tooling



Model Number	A	Interchangeable pin
20010	41	20010-KR
20015	42	20015-KR



Model Number	Typical application product
QT077	CMV-48

Tools for cables and connectors

Types:

Puller for connector with cable

Disassembling tooling

Torque wrench

Insertion and extraction tooling

Puller for adapter

Application:

SMP, SSMP

➤ Please contact us for more tools.

Other products

Rf coaxial matched loads

Types:

SMA, SSMA, SMP, N, K, TNC

Male, Female

Impedance: 50Ω

Frequency Range: 0-30GHz

VSWR: ≤1.3

Power capacity: -5W

Glass-to-metal hermetic seals

/Insulator/Feedthrough/Connector

Types:

Single core, multicore, 1-3 rows

Features:

Small, lightweight, hermetic, reliable

Application:

Glass insulators are mainly used for the transmission of microwave signals, power signals and control signals between modules and modules, modules and components that request hermetic sealing, can be used with SMA, millimeter wave products; They are one of the most critical components for seal assemblies.



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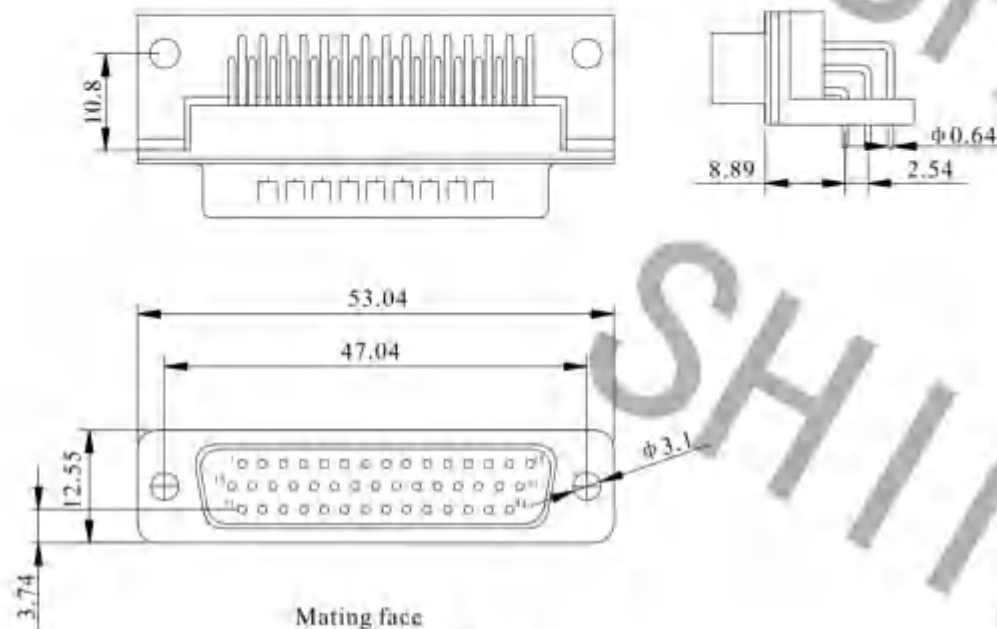
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No.8, Yanta Northern Road, Xi'an Shaanxi Pro. China.

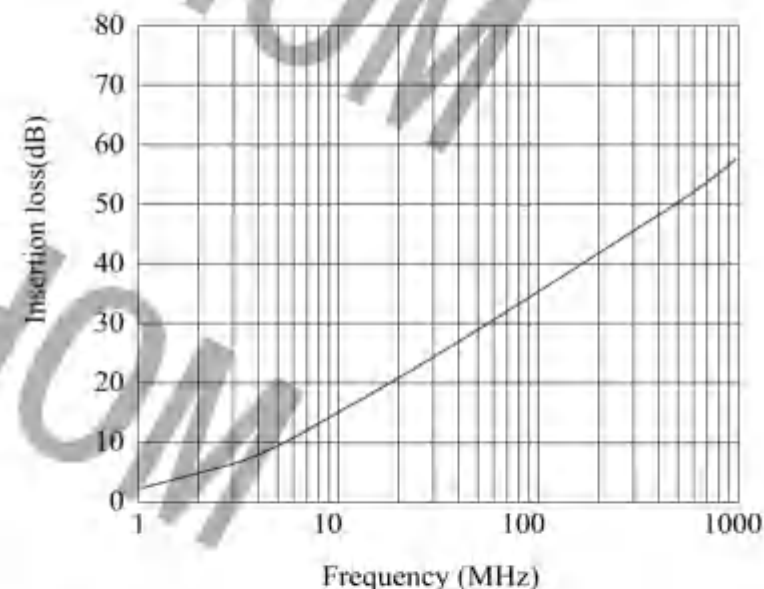
Rev.	Description	Date
A0	New release	2024.06.24

1.PHYSICAL CHARACTERISTICS(mm)



Filter Circuits	Capacitance		3 dB Cut-off Frequency (MHz)Max.	Dielectric Withstanding Voltage	Working Voltage DC
	Value	Tol.			
C	4000pF	±25%	1.3	300V	100V

Minimum Insertion Loss - Decibels (dB)							
5MHz	10MHz	20MHz	50MHz	100MHz	200MHz	500MHz	1GHz
8	13	19	26	31	37	45	48



2. ELECTRICAL SPECIFICATIONS:

Current Rating: 3A

R.F. Current Rating: 0.3A

Contact Resistance: 15mΩ Max

Operating temperature: -55℃ to +125℃

UL Recognized: Under category of communication circuit accessories, File #E149046

Insertion loss measured per MIL-STD-220, no load, 50 ohm source and load.

NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF622-019	REV:	A0
DRAWN BY	CHECKED BY	APPROVE BY	

Mechanical Specifications

Shell	Aluminum diecast, nickel plated 3.81um min
Insulators	Glass-filled polyester, flammability UL94V-0
Pin Contacts	Copper alloy, 0.38umg old plated * over nickel
Socket Contacts	Copper alloy, 0.76um gold plated * over nickel * Heavier gold plating available upon request
Terminations	Connector Options Gold flash for PCB mount and solder cups. Solder dipped also available
Ground Plane	Brass, solder plated
Grounding Springs	Beryllium copper, tin plated per MIL-T-10727
Capacitors	Proprietary barium titanate ceramic formulations

NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF622-019	REV: A0	PAGE
DRAWN BY	CHECKED BY		APPROVE BY

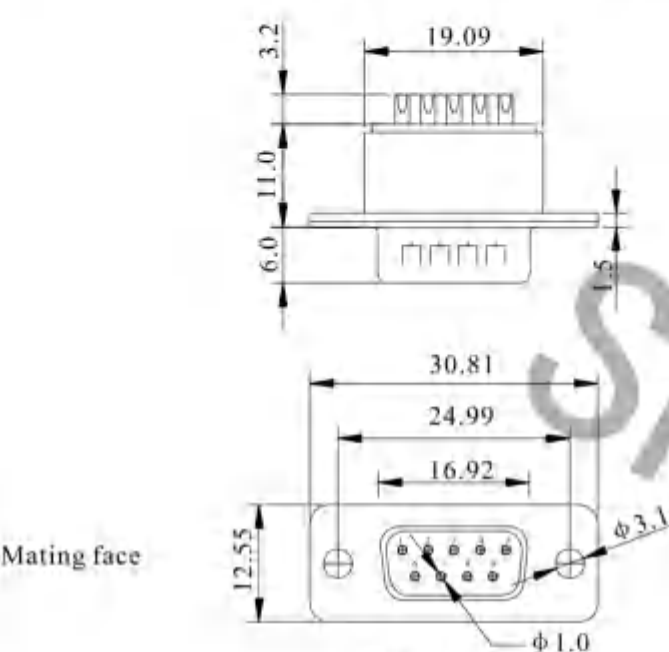


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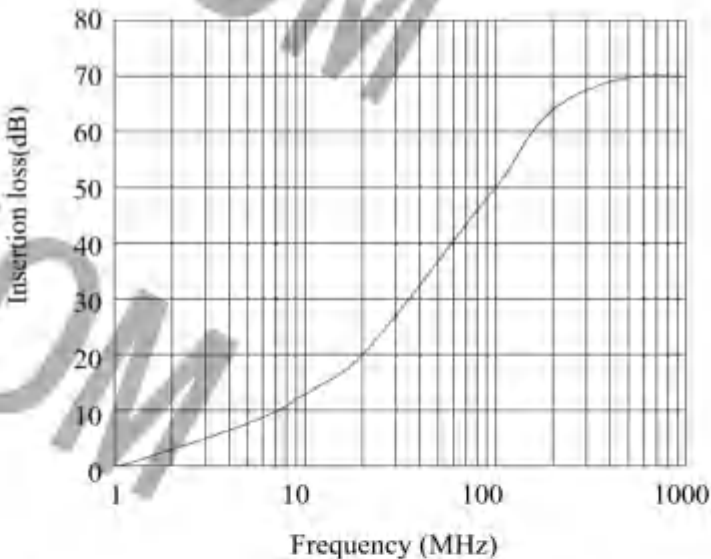
Rev.	Description	Date
A0	New release	2024.06.24

1.PHYSICAL CHARACTERISTICS(mm)



Filter Circuits	Capacitance		3 dB Cut-off Frequency (MHz)Max.	Dielectric Withstanding Voltage	Working Voltage DC
	Value	Tol.			
Pi	4000pF	+100/-0%	0.8	150V	50V

Minimum Insertion Loss - Decibels (dB)							
5MHz	10MHz	20MHz	50MHz	100MHz	200MHz	500MHz	1GHz
8	13	20	37	50	64	70	70



2. ELECTRICAL SPECIFICATIONS:

- Current Rating: 5A
- R.F. Current Rating: 0.3A
- Contact Resistance: 10mΩ Max
- Inductance: ~ 860nH@100KHz~1MHz
- Operating temperature: -55℃ to +125℃
- UL Recognized: Under category of communication circuit accessories, File #E149046

Insertion loss measured per MIL-STD-220, no load, 50 ohm source and load.

NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF701-015	REV:	A0
DRAWN BY	CHECKED BY	APPROVE BY	



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Shell	Aluminum diecast, nickel plated 3.81um min
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Terminations	Connector Options Gold flash for PCB mount and solder cups. Solder dipped also available
Ground Plane	Brass, solder plated
Grounding Springs	Beryllium copper, tin plated per MIL-T-10727
Capacitors	Proprietary barium titanate ceramic formulations

NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF701-015	REV: A0	PAGE
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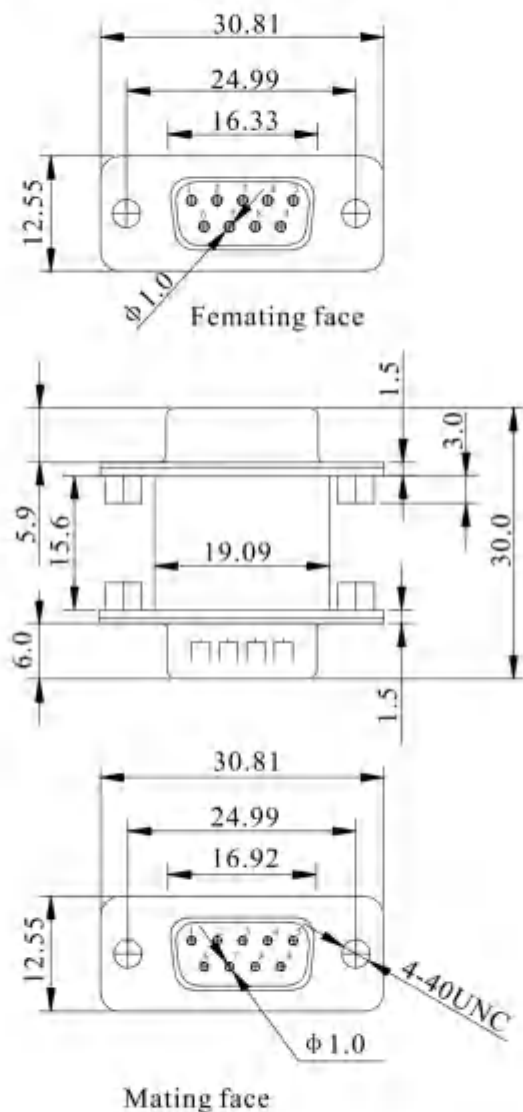


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Rev.	Description	Date
A0	New release	2024.06.24

1. PHYSICAL CHARACTERISTICS(mm)



2. ELECTRICAL SPECIFICATIONS:

Current Rating: 5A

R.F. Current Rating: 0.3A

Contact Resistance: 10m Ω Max

Inductance: $\sim 860\text{nH}@100\text{KHz}\sim 1\text{MHz}$

Operating temperature: -55°C to $+125^{\circ}\text{C}$

UL Recognized: Under category of communication
circuit accessories, File #E149046

Filter Circuits	Capacitance		3 dB Cut-off Frequency (MHz)Max.	Dielectric Withstanding Voltage	Working Voltage DC
	Value	Tol.			
Pi	4000pF	+100/-0%	0.8	150V	50V

Minimum Insertion Loss - Decibels (dB)							
5MHz	10MHz	20MHz	50MHz	100MHz	200MHz	500MHz	1GHz
8	13	20	37	50	64	70	70

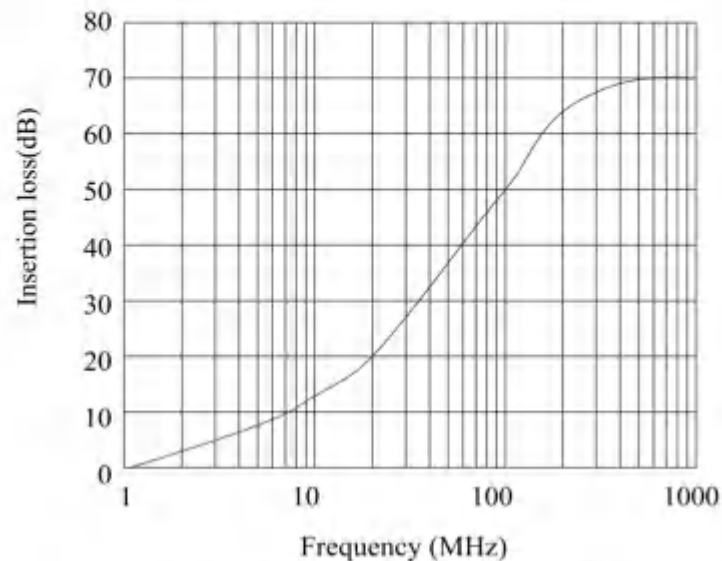
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NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF701L-015	REV: A0	PAGE
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Insertion loss measured per MIL-STD-220, no load, 50 ohm source and load.

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SHINHOM P/N:	DSF701L-015	REV: A0	PAGE
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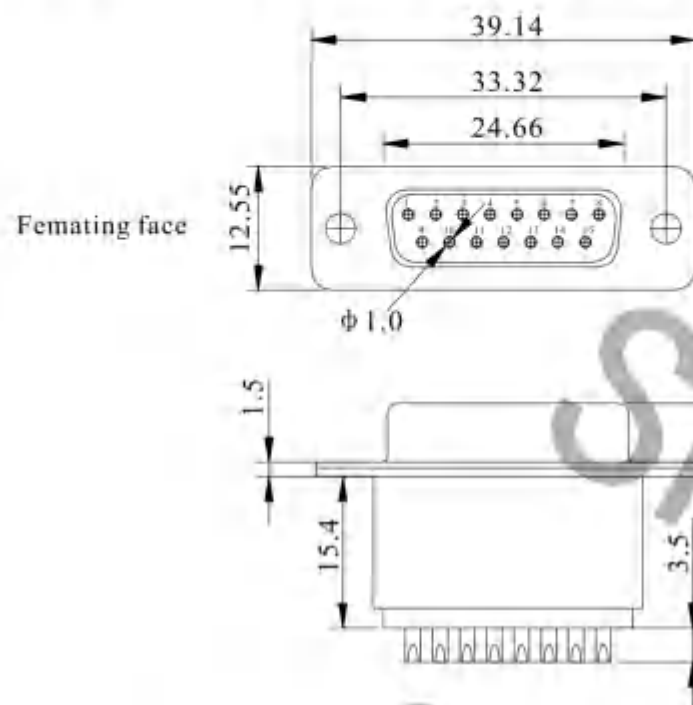


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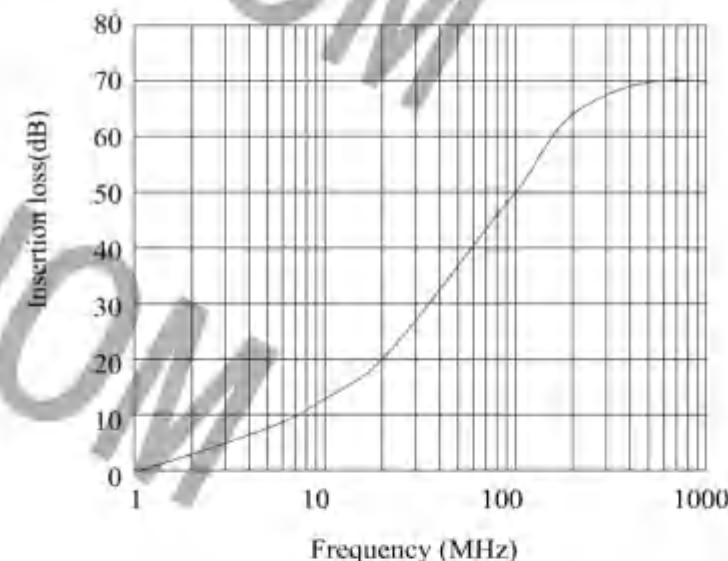
Rev.	Description	Date
A0	New release	2024.06.24

1. PHYSICAL CHARACTERISTICS(mm)



Filter Circuits	Capacitance		3 dB Cut-off Frequency (MHz)Max.	Dielectric Withstanding Voltage	Working Voltage DC
	Value	Tol.			
Pi	4000pF	+100/-0%	0.8	150V	50V

Minimum Insertion Loss - Decibels (dB)							
5MHz	10MHz	20MHz	50MHz	100MHz	200MHz	500MHz	1GHz
8	13	20	37	50	64	70	70



2. ELECTRICAL SPECIFICATIONS:

Current Rating: 5A

R.F. Current Rating: 0.3A

Contact Resistance: 10mΩ Max

Inductance: ~ 860nH@100KHz~1MHz

Operating temperature: -55℃ to +125℃

UL Recognized: Under category of communication circuit accessories, File #E149046

Insertion loss measured per MIL-STD-220, no load, 50 ohm source and load.

NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF716-005	REV:	A0
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Mechanical Specifications

Shell	Aluminum diecast, nickel plated 3.81um min
Insulators	Glass-filled polyester, flammability UL94V-0
Pin Contacts	Copper alloy, 0.38umg old plated * over nickel
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Ground Plane	Brass, solder plated
Grounding Springs	Beryllium copper, tin plated per MIL-T-10727
Capacitors	Proprietary barium titanate ceramic formulations

NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF716-005	REV: A0	PAGE
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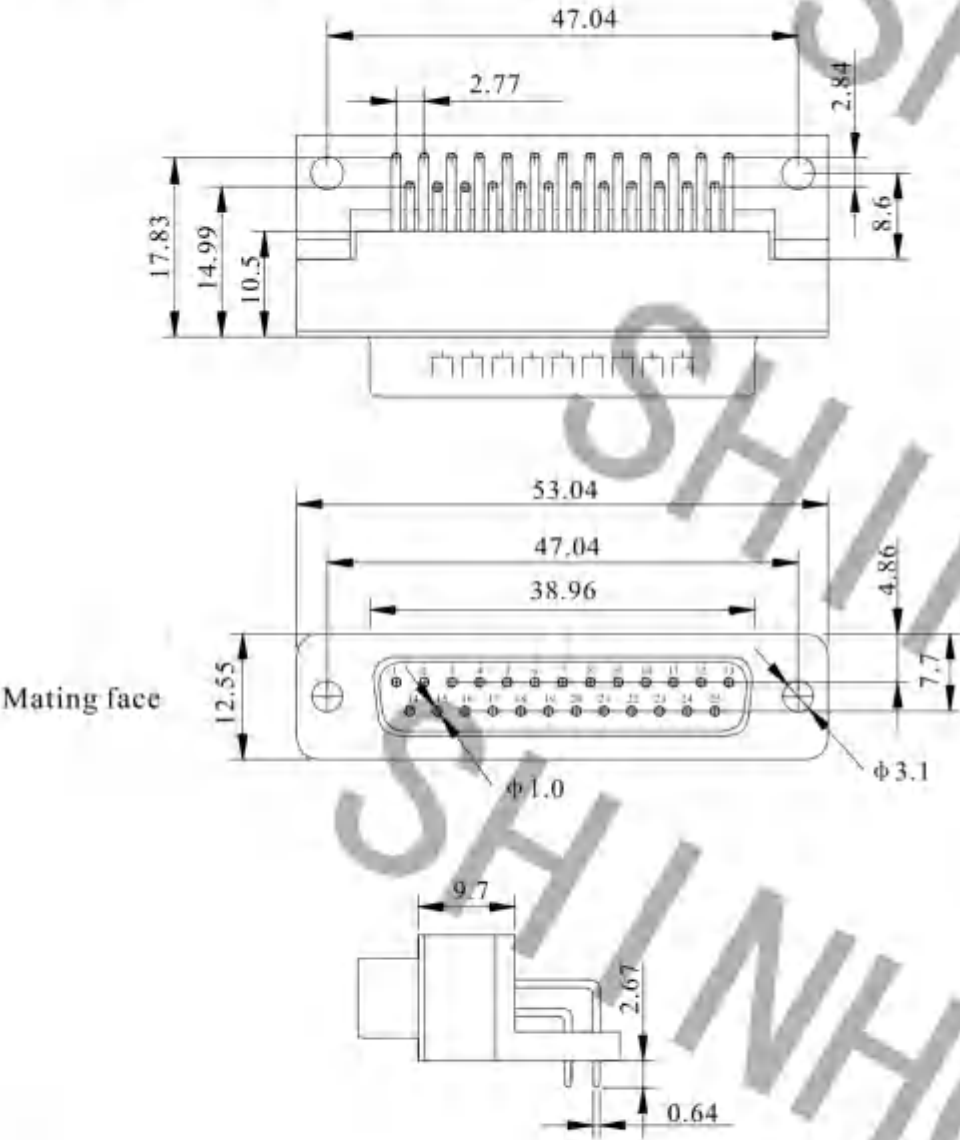
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Rev.	Description	Date
A0	New release	2024.06.24

1.PHYSICAL CHARACTERISTICS(mm)



2. ELECTRICAL SPECIFICATIONS:

Current Rating: 5A
R.F. Current Rating: 0.3A
Contact Resistance: 10mΩ Max
Inductance: ~860nH@100KHz~1MHz
Operating temperature: -55℃ to +125℃
UL Recognized: Under category of communication circuit accessories, File #E149046

Filter Circuits	Capacitance		3 dB Cut-off Frequency (MHz)Max.	Dielectric Withstanding Voltage	Working Voltage DC
	Value	Tol.			
Pi	4000pF	+100/-0%	0.8	150V	50V

Minimum Insertion Loss - Decibels (dB)							
5MHz	10MHz	20MHz	50MHz	100MHz	200MHz	500MHz	1GHz
8	13	20	37	50	64	70	70

Insertion loss measured per MIL-STD-220, no load, 50 ohm source and load.

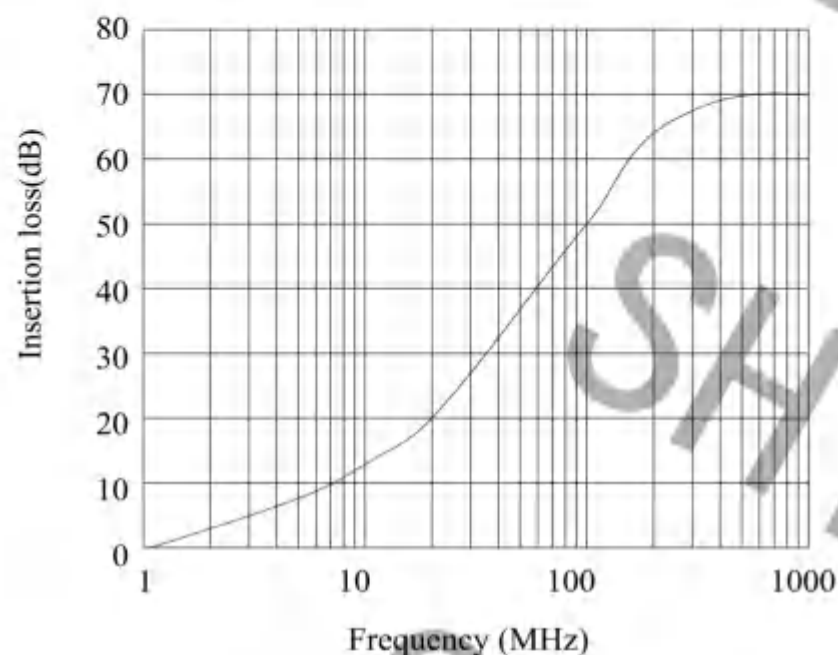
NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF722-005	REV:	A0
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Typical insertion loss



Insertion loss measured per MIL-STD-220, no load, 50 ohm source and load.

Mechanical Specifications

Shell	Aluminum diecast, nickel plated 3.81um min
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Capacitors	Proprietary barium titanate ceramic formulations



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NAME:	D-SUB Filter connectors		
CUSTOMER P/N:		DATE:	2024-06-24
SHINHOM P/N:	DSF722-005	REV:	A0 PAGE
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1. D-Sub Filter Connector with Ordinary Ceramic Capacitor

Application Scope: Computers, industrial control equipment, graphic workstations, PBX program-controlled switches, base stations, medical equipment.

Cost Saving: Low cost and high performance; replaces capacitor filters on PCBs to reduce costs and save PCB space.

Optimized Design: Standard density 9-pin / 9-hole, 15-pin / 15-hole, 25-pin / 25-hole, 37-pin / 37-hole.

Insertion Loss Range: 1M ~ 18GHz or higher.

Temperature Range: -40°C ~ +125°C.

Maximum Voltage: 300VDC.

Maximum Current: 5Amps.

2. High Performance D-Sub Filter Connector

Application Scope: Telecommunication equipment, industrial control equipment, graphic workstations, microwave TX/RX, base stations, electronic medical equipment, security communications, aerospace, satellites, program-controlled switches, power supplies, electronic warfare, ground-air equipment.

Excellent Filtering: Filter types include C-type filter and PI-type filter. The integrated design of tubular ceramic capacitor and connector shell delivers superior EMI shielding performance.

Optimized Design: 9-pin / 9-hole, 15-pin / 15-hole, 25-pin / 25-hole, 37-pin / 37-hole, 50-pin / 50-hole.

Multiple Options: Structure, mounting type, conductive gasket, cover locking structure, combined filter type, plating, etc.

Reliability: Every pin of the connector undergoes 100% rigorous standardized testing to guarantee overall performance.

Insertion Loss Range: 1M ~ 18GHz or higher.

Capacitance & Temperature Characteristics: 5000PF, NPO, Z5U/X7R.

Temperature Range: -55°C ~ +125°C.

Maximum Voltage: 1000VDC.

Maximum Current: 5Amps.

Product Model Coding

VFD-L	X25	P	I	H	I
	Contact	Connection Type	Termination Style	Mounting Style	Capacitance
	T09 W15 X25 Y37 Z55	P-Pin S-Socket A-Pin & Socket Adapter	1: 90° , Right Angle, PCB Mount, Flange to Lead Distance: 8.08mm 2: 90° , Right Angle, PCB Mount, Flange to Lead Distance: 10.29mm 3: 90° , Right Angle, PCB Mount, Flange to Lead Distance: 14.99mm 4: Pin-to-Socket Adapter 5: Vertical PCB Mount 6: Solder Cup 7: Extended Vertical PCB Mount	H: Vertical Mount, PCB Termination Bracket with 4-40 Tapped Holes and Locking Feature I: 3.05mm Diameter Through Hole J: 4-40 Tapped Hole (Self-locking Option Available) K: M3 Tapped Hole L: 4-40 Hex Socket	Refer to the List Below

4. Filter Characteristics of D-Sub Filter Connector with Ordinary Ceramic Capacitor

	Capacitance		Working Voltage DC	Max Voltage DC	Min Insertion Loss (dB)								
					1	5	10	20	50	100	200	500	1
	C	Tol.			MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	GHz
A	50pF	±20%	200V	700V	—	—	—	—	—	2	12	27	32
B	180pF	±20%	200V	700V	—	—	—	1	4	12	27	29	32
C	470pF	±20%	200V	700V	—	1	2	5	11	22	30	31	32
D	820pF	±20%	200V	700V	—	1	3	10	16	30	32	32	32
E	1000pF	±20%	200V	700V	—	1	3	10	16	22	32	32	32
F	2000pF	±20%	200V	700V	1	5	8	16	23	32	32	32	32
G	5600pF	±20%	200V	700V	5	11	16	26	32	32	32	32	32
H	47nF	±20%	200V	700V	13	27	32	32	32	32	32	32	32

5. Filter Characteristics of High Performance D-Sub Filter Connector

	Filter Circuit	Capacitance		Cut-off Frequency (3dB)	Max Voltage DC	Working Voltage DC	(MIL-STD-220) Minimum Insertion Loss (dB)									
		C	Tol.				5	10	20	50	100	200	500	1	2	5
							MHz	MHz	MHz	MHz	MHz	MHz	MHz	GHz	GHz	GHz
I	PI	100pF	+100-0%	32	300V	100V	-	-	-	2	6	11	27	40	43	40
J		310pF	±20%	17	300V	100V	-	-	3	7	13	21	36	43	50	45
K		1000pF	+100-0%	3.2	300V	100V	-	5	9	19	30	43	62	70	68	63
L		2500pF	+100-0%	1.3	150V	50V	8	13	18	33	45	58	73	78	70	65
M		4000pF	+100-0%	3.2	150V	50V	8	13	20	35	48	61	76	80	70	65
N	C	375pF	±20%	14	600V	200V	-	-	2	7	13	20	29	35	30	29
O		500pF	±20%	10.6	600V	200V	-	-	3	10	15	22	31	37	33	31
P		830pF	±20%	6.4	600V	200V	-	4	9	16	22	28	35	39	38	36
Q		1000pF	+100-0%	3.2	600V	200V	-	5	10	17	23	30	37	43	44	42
R		5000pF	+100-0%	0.64	300V	100V	10	16	22	30	35	41	50	52	52	50

