

Kurt J. Lesker

Company

VACUUM SUB MINIATURE D-TYPE FEEDTHROUGHS & ACCESSORIES

BIOTECHNOLOGY PHARMACEUTICAL DISPLAY TECHNOLOGIES OLED/PLED NANOTECHNOLOG
MEMS NIGHT VISION AEROSPACE SEMICONDUCTOR SUPERCONDUCTOR OPTICAL & WEB C



REFRIGERATION LASER TECHNOLOGY DATA STORAGE MASS SPECTROMETRY THIN FILM PHA
AUTOMOTIVE LIGHTING SURFACE ANALYSIS R&D HIGH ENERGY PHYSICS HEAT TREATING D

Products for All Applications

Vacuum Sub miniature D-Type Feedthroughs

The Sub miniature D-type feedthrough complies to the internationally accepted MIL-C-24308 standard which is widely used in electronics. D-type feedthroughs are recommended for electrical measurement, signals, and heaters up to 5 amps. Internal and external connections have locking screws which are important for safety and convenient for demounting.

The connectors and sockets comply to industry standards and can be used with a wide range of connectors available from electronic components suppliers. KJLC can supply the complete range of feedthroughs, crimp pins, crimp tools and Kapton insulated wire. Internal vacuum compatible connectors are available in two versions: ceramic for high temperature and PEEK for UHV.

The D-Type feedthroughs are available in 9-, 15-, 25-, 37- and 50-pin versions, mounted on CF, ISO-K flanges and custom fabrications.

SPECIFICATIONS

Mechanical		Specifications	
Shell Material		Austenitic Stainless Steel	
Pin Material		Ni-Fe Alloy, High Temp Ni Plated	
Pin Diameter		1mm	
Min Temperature		-200°C (LN2)	
Max Temperature		+300°C (Based on gasket material)	
Temperature Gradient		25K/min	
Vacuum			
Leak Rate		2x10 ⁻¹⁰ mbar l/s He	
Range		Better than 10 ⁻¹⁰ mbar with CF flanges/ 10 ⁻⁸ with ISO-KF flanges	
Electrical			
Voltage		500V DC pin to pin / pin to ground	
Max Current		5A at 20°C	

ACCESSORIES

Part Number	Description
FTADD09	9-Pin Vacuum Side PEEK Connector
FTADD09A	9-Pin Atmosphere Side Connector
FTADD09C	9-Pin Vacuum Side Ceramic Connector
FTADD09PS	9-Pin Vacuum Side Small PEEK Connector *
FTADD15	15-Pin Vacuum Side PEEK Connector
FTADD15A	15-Pin Atmosphere Side Connector
FTADD15C	15-Pin Vacuum Side Ceramic Connector
FTADD15PS	15-Pin Vacuum Side Small PEEK Connector *
FTADD25	25-Pin Vacuum Side PEEK Connector
FTADD25A	25-Pin Atmosphere Side Connector
FTADD25C	25-Pin Vacuum Side Ceramic Connector
FTADD25PS	25-Pin Vacuum Side Small PEEK Connector *
FTADD25CS	25-Pin Vacuum Side Small Ceramic Connector *
FTADD37	37-Pin Vacuum Side PEEK Connector
FTADD37A	37-Pin Atmosphere Side Connector
FTADD37C	37-Pin Vacuum Side Ceramic Connector
FTADD37PS	37-Pin Vacuum Side Small PEEK Connector *
FTADD50	50-Pin Vacuum Side PEEK Connector
FTADD50A	50-Pin Atmosphere Side Connector
FTADD50C	50-Pin Vacuum Side Ceramic Connector
FTADD50PS	50-Pin Vacuum Side Small PEEK Connector *
FTADPEEK-10	Vacuum Side Contacts, 10/Pk
All connectors include contacts	
* Denotes Small Plug	
FTAK101000	Kapton Ribbon Cable, 10 Wires x 1m Lg
FTAK151000	Kapton Ribbon Cable, 15 Wires x 1m Lg
FTAK251000	Kapton Ribbon Cable, 25 Wires x 1m Lg

Part Number	Description
FTAK0912P	Kapton 9-Pin Wire, PEEK Connector One Side, 12" Lg
FTAK0912PP	Kapton 9-Pin Wire, PEEK Connector Both Sides, 12" Lg
FTAK1512P	Kapton 15-Pin Wire, PEEK Connector One Side, 12" Lg
FTAK1512PP	Kapton 15-Pin Wire, PEEK Connector Both Sides, 12" Lg
FTAK2512P	Kapton 25-Pin Wire, PEEK Connector One Side, 12" Lg
FTAK2512PP	Kapton 25-Pin Wire, PEEK Connector Both Sides, 12" Lg
FTAK3712P	Kapton 37-Pin Wire, PEEK Connector One Side, 12" Lg
FTAK3712PP	Kapton 37-Pin Wire, PEEK Connector Both Sides, 12" Lg
FTAK5012P	Kapton 50-Pin Wire, PEEK Connector One Side, 12" Lg
FTAK5012PP	Kapton 50-Pin Wire, PEEK Connector Both Sides, 12" Lg



CF FLANGED

Flange Size	Description	# of Pins	A (mm)	B (mm)	C (mm)	Part Number
2.75"CF	9-Pin D-Subminiature, 2.75"CF	9	33.0	14.5	17.0	IFDGG091053
2.75"CF	15-Pin D-Subminiature, 2.75"CF *	15	38.0	16.5	17.0	IFDGG151053
3-3/8"CF	15-Pin D-Subminiature, 3-3/8"CF	15	38.0	16.5	17.0	IFDGG151053A
4.5"CF	15-Pin D-Subminiature, 4.5"CF	15	38.0	16.5	17.0	IFDGG151056
2.75"CF	25-Pin D-Subminiature, 2.75"CF *	25	55.0	16.5	17.0	IFDGG251053
4.5"CF	25-Pin D-Subminiature, 4.5"CF	25	55.0	16.5	17.0	IFDGG251056
4.5"CF	(2)x25-Pin D-Subminiature, 4.5"CF *	50	55.0	16.5	17.0	IFDGG251056X
4.5"CF	37-Pin D-Subminiature, 4.5"CF	37	70.0	16.5	17.0	IFDGG371056
6"CF	37-Pin D-Subminiature, 6"CF	37	70.0	16.5	17.0	IFDGG371056A
4.5"CF	50-Pin D-Subminiature, 4.5"CF *	50	68.0	18.0	17.0	IFDGG501056
6"CF	50-Pin D-Subminiature, 6"CF	50	68.0	18.0	17.0	IFDGG501056A

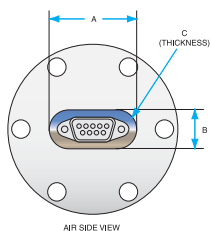
*Small Plug Required Vacuum Side



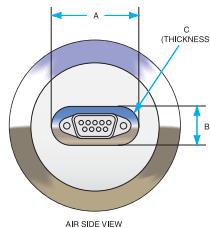
QF/KF FLANGED

Flange Size	Description	# of Pins	A (mm)	B (mm)	C (mm)	Part Number
QF25	9-Pin D-Subminiature, QF25 *	9	33.0	14.5	17.0	IFDGG091058A
QF40	9-Pin D-Subminiature, QF40	9	33.0	14.5	17.0	IFDGG091058B
QF50	9-Pin D-Subminiature, QF50	9	33.0	14.5	17.0	IFDGG091058C
QF40	15-Pin D-Subminiature, QF40 *	15	38.0	16.5	17.0	IFDGG151058B
QF50	15-Pin D-Subminiature, QF50	15	38.0	16.5	17.0	IFDGG151058C
QF50	25-Pin D-Subminiature, QF50 *	25	55.0	16.5	17.0	IFDGG251058C
ISO63-K	25-Pin D-Subminiature, ISO63-K	25	55.0	16.5	17.0	IFDGG251058D
ISO100-K	37-Pin D-Subminiature, ISO100-K	37	70.0	16.5	17.0	IFDGG371058F
ISO100-K	50-Pin D-Subminiature, ISO100-K	50	68.0	18.0 <td 17.0	IFDGG501058F	

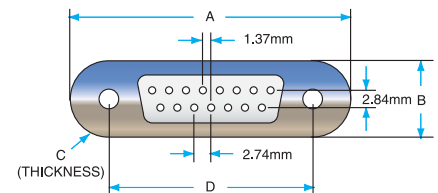
*Small Plug Required Vacuum Side



CF Flanged



QF/KF Flanged



Weldable

WELDABLE

Flange Size	Description	# of Pins	A (mm)	B (mm)	C (mm)	D (mm)	Part Number
Weld	9-Pin D-Subminiature, Weldable	9	33.0	14.5	17.0	25.00	IFDGG091051
Weld	15-Pin D-Subminiature, Weldable	15	38.0	16.5	17.0	33.33	IFDGG151051
Weld	25-Pin D-Subminiature, Weldable	25	55.0	16.5	17.0	47.04	IFDGG251051
Weld	37-Pin D-Subminiature, Weldable	37	70.0	16.5	17.0	63.50	IFDGG371051
Weld	50-Pin D-Subminiature, Weldable	50	68.0	18.0	17.0	61.10	IFDGG501051

GLOBAL VACUUM PRODUCT LINES

VACUUM MART™ DIVISION

Vacuum Valves & Hardware

- Flanges, Components, & Fasteners
- Gate & Angle Valves
- OFHC Copper Gaskets
- Bellows, Tubing, & Seals
- Semiconductor, PV, & FPD Process Valves

Feedthroughs

- Power & High Voltage
- Viewports (Optical Feedthrough)
- Coaxial & Instrumentation
- Thermocouple
- Ferro-Magnetic Fluid Rotary Drives
- USB

Vacuum Pumps & Accessories

- New & Remanufactured
- Rotary Vane & Piston
- Scroll & Diaphragm
- Screw & Roots Blowers
- Turbo & Diffusion
- Cryogenic & Ion
- Traps & Filters
- Complete Offering of Pump Repair Services

Vacuum Fluids

- Full Line of Mechanical Pump Oils
- Fomblin® PFPE - Inert PFPE
- Galden® PFPE - Heat Transfer Fluid
- Vacuum Greases, Sealants, & Solvents
- Pump Oil with R/O Additives
- Silicon Diffusion Pump Oils
- Pump Oil Recycling

Pressure Measurement

- Analog & Digital Active Gauges
- Pressure Indicators & Controllers
- Wide-Range Gauges
- Multi-Gauge Controllers
- Replacement Gauge Tubes
- MKS Baratrons®

Sample Manipulation & Motion

- Rotary & Linear Motion
- Linear Positioners
- Wobble Sticks & Port Aligners
- XYZ Manipulators
- Multi-Axis Manipulators
- Sample Transfer Probes
- Sample Heating & Rotation
- Motion Control
- Sample Distribution Center

Vacuum Services

- Full Line Pump Repair/Rebuild Services
- Pump Oil Recycling
- Technical Information
- Technical Consulting
- Decontamination
- Magnetron Cathode Service
- Contract Manufacturing

PROCESS EQUIPMENT™ DIVISION

Deposition Sources

- Torus® Magnetron Sputtering Sources
- Electron Beam Evaporation
- Organic Material Sources
- Electron Beam Sources
- Ion Sources
- Thermal Evaporation Sources

Process Instrumentation

- Film Thickness
- Mass Flow Controllers
- RF & DC Power Supplies
- Pulsed DC Power Supplies
- Power Supplies for Evaporation

System Components & Custom Engineered Solutions

- Turnkey & Partial Build Solutions
- Comprehensive Engineering Design Support
- Chambers, Frames, & Mounting Structures
- High Temperature & Bakeout Heater Assemblies
- Heater Power Supplies
- Substrate Load Locks & Transfer Vessels

Vacuum Systems

- Thin Film Deposition Systems
- Cluster Tools
- Box Coaters
- General PVD Systems
- Computerized Systems
- Combinatorial Systems
- Organic Material Deposition Systems
- R&D Sputter Tools
- Vacuum Furnaces & Ovens
- Atomic Layer Deposition (ALD)
- Drum Coaters
- In-line & Linear Systems
- R2R Systems

MATERIALS™ DIVISION

Deposition Materials

- Sputtering Targets
- Precious Metals & Reclaim
- Evaporation Pieces
- Thermal Evaporation Sources
- E-Beam Crucible Liners
- Bonding Service
- Backing Plates
- Ceramic Materials Manufacturing (CMM)

MANUFACTURING™ DIVISION

Vacuum Chambers & Components

- Standard SS Cylindrical, D-Shaped, Spherical, & Box Chambers
- Standard Pyrex® Glass Bell Jars & Cylinders
- Standard Building Blocks to Customize Your System
- Custom Chambers
- Array of Finishes & Materials
- Easily Build Your Own Chamber with the Custom Chamber Configurator On-line

Manufacturing & Fabrication

- State-of-the-Art CNC Machining
- Mechanical, Manufacturing, & Industrial Engineering
- Computer Based Scheduling & Routing
- CAD, CAM, & FEA Software
- Coordinate Measuring Machine Inspection (CMM)
- UHV Compatible Cleaning Process

We have a network of representatives around the world ready to service the international vacuum community.

Visit our website to find the representative nearest you, or contact our International Sales Department.

www.lesker.com/locations

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