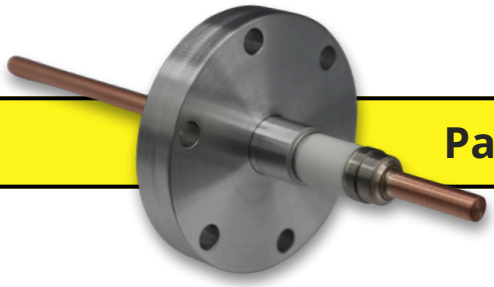
New AluMatch Series Aluminum Feedthroughs



Patent Pending

SPECS

Component Type	Power Feedthrough
Flange Material	6000-Series Aluminum
Flange Type	CF | KF/QF 25 & 40
Flange Size	CF: 1.33" / 2.75" | KF/QF: 1.57" / 2.16"
Temperature Range	-100 °C — 200 °C
Number of Pins	1 / 2
Conductor Material	Copper / Molybdenum / Nickel / Stainless Steel
Conductor OD	0.05" / 0.094" / 0.25"
Recommended Gasket	Soft-Annealed OFHC Copper
Vacuum Compatibility	Ultra-High Vacuum (UHV)
Vacuum / Pressure	1 ATM | 15 PSI
Vacuum Integrity	$< 1 \times 10^{-9}$ atm cc/sec He Leak Tested
Magnetic Permeability (μ_r)	< 1.01 (Non-Magnetic)
Conflat Flange Bolts	Max Property Class: 8.8 Uncoated
Max Tensile Strength	800 N/mm^2

BENEFITS

Bakeout Efficiency	High-Uniformity (Eliminates Cold Spots)
Outgassing Profile	Negligible Bulk H_2 Diffusion
Pump-Down Speed	Fast-Cycle Performance
Thermal Conductivity	Superior Thermal Dissipation (10x Stainless Steel)
Radioactivity Profile	Low-Activation Material
Total Weight	Ultra-Lightweight
Mounting	Industry Standard
Material Cost	Affordable System Integration

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