

## Microwave SMA 2.92mm (K-Type) feedthrough 242-SMAD40G-C16 (and other flange sizes)

For microwave applications up to 40GHz, Allectra offers a vacuum feedthrough type 2.92mm (also called K-Type). This special version of an SMA connector uses no PTFE dielectric.

Frequencies up to 40 GHz with well defined VSWR and insertion loss give high performance for RF applications. Every feedthrough is delivered with a test certificate.

The seal to the flange is done with a Viton O-ring.  
(Welded versions are in preparation)

Smallest mounting flange is 16CF / 16KF. Up to four of these feedthroughs can be fitted to a 40CF flange.



242-SMAD40G	
Type	SMA 2.92mm (K-Type)
Impedance	50 Ohm
Frequency range	0 – 40 GHz
Standing Wave Ratio (VSWR)	1.25:1 max (0 – 40 GHz)
Insertion Loss	0.25 db max (0 – 40 GHz)
Max. voltage	1000V
Max. power	25W @ 29GHz (20°C)
Temperature	-65 ... 125°C
Vacuum leak rate	< 5x 10 <sup>-10</sup> mbar l / s (He)*
Materials	Stainless Steel, BeCu, Glass
Plating	All metal parts gold plated (>1µm)
Seal	Viton O-ring seal to flange

\*) Diffusion of He through O-Ring is not included in this value

Please note; Never use this feedthrough together with a standard SMA connector. The feedthrough might be damaged and the above given values might no longer be reached.

Connectors should be fixed with a torque wrench. Typical torque is 0.9Nm.