

Microwave 1.85mm (SMA) feedthrough 242-SMAD65G-C16 (and other flange sizes)

For microwave applications up to 65GHz, Allectra offers a vacuum feedthrough type 1.85mm. This special version of an SMA connector uses no PTFE dielectric. The outer dimensions are identical with SMA, but the item must never be used with normal SMA connectors.



The seal to the flange is done with a Viton O-ring.

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

242-SMAD65G	
Type	SMA 1.8mm
Impedance	50 Ohm
Frequency range	0 – 65 GHz
Standing Wave Ratio (VSWR)	<1.5:1 (0 – 65 GHz)
Insertion Loss	< 0.7 db
Temperature	-55 ... 125°C
Vacuum leak rate	< 5x 10 ⁻¹⁰ mbar l / s (He)*
Materials	Stainless Steel, BeCu, Glass, Kovar
Plating	All metal parts gold plated
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.

Typical Performance

