The new SBZ - Push - On
for high power connection

only 14 mm (0.55“) space needed
between the components
1 male + 1 female
= 14 mm

Spectrum
Elektrotechnik GmbH

when Quality is needed

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SBZPush-OnE

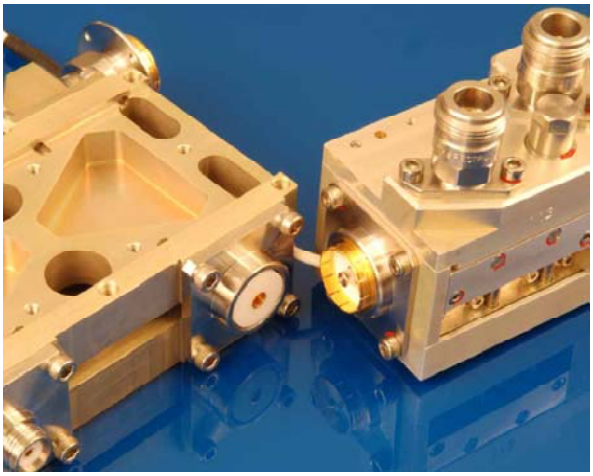
SBZ is another fine product, developed by Spectrum Elektrotechnik GmbH

For applications where space is limited and high power units are to be connected on a slide on basis, we have developed the new SBZ series (**S**pectrum-**B**lind Mate-**Z**), allowing quick and easy connection and disconnection. Only 14mm (0.55") space in total is needed, for both, male and female SBZ Connectors.

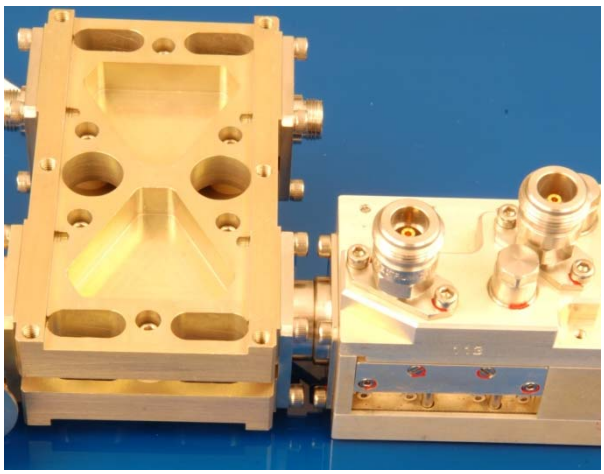
The SBZ connectors are of rugged construction and have excellent electrical performance, namely low VSWR and low insertion loss as well.

The SBZ adds well to the SBX and SBY series and the whole Push-On Family, as seen in the 400 pages Handbook "Quick Connections". The Handbook is available free of charge.

Adapters from SBZ to N series are available as standard, so there is no problem testing components using SBZ connectors. Spectrum Elektrotechnik is an engineering company, always eager to find a solution that perfectly fits customers' requirements.



SBZ connetors disconnected



SBZ connectors connected

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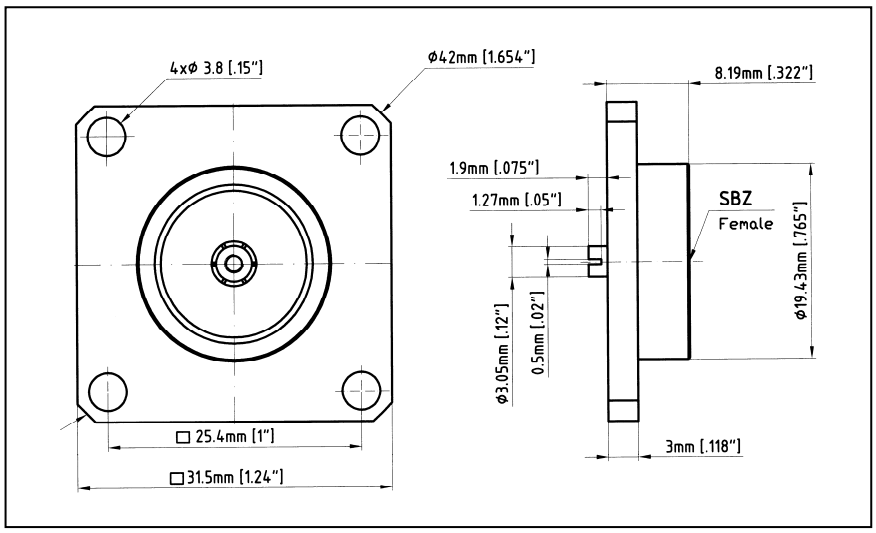
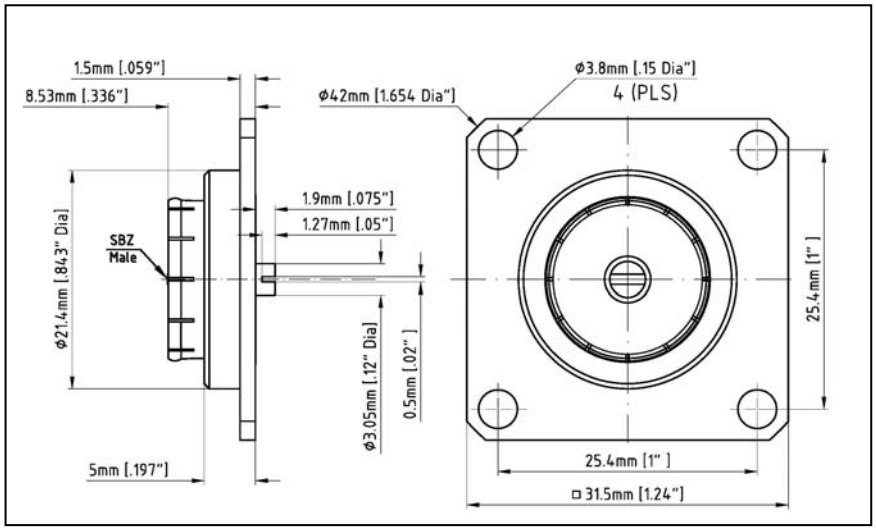
Connectors



SBZ female
4-hole-flange connector

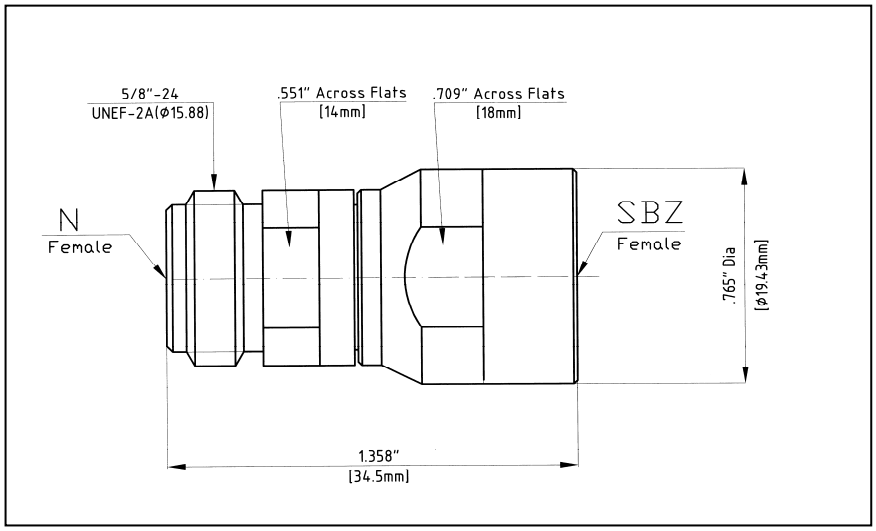
7799-6001-02



SBZ male
4-hole-flange connector

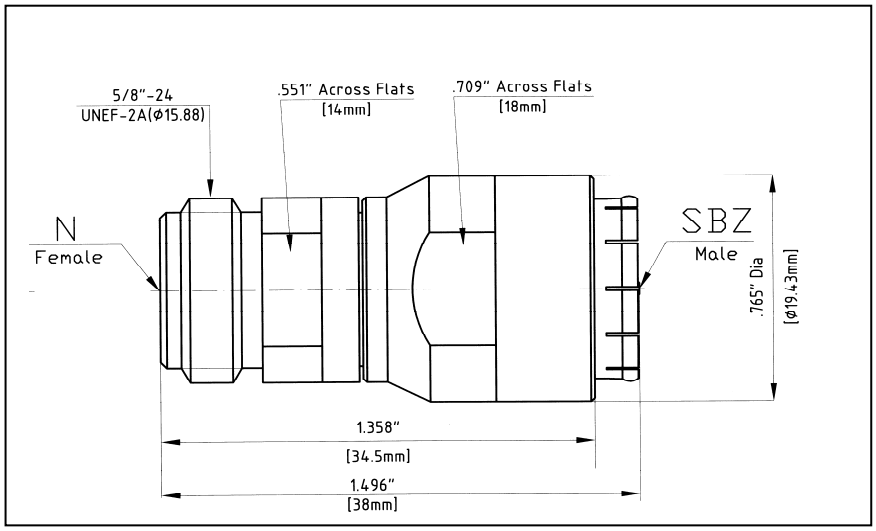
7799-7002-02

Adapters



SBZ female to N female adapter

8001-ZF61-02



SBZ male to N female adapter

8001-ZM61-02

Mechanical Characteristics	
Connector Durability	The connector is to be tested and its mating connector shall be subjected to 500 insertions min. Withdrawal cycles / minute are not applicable. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements
Operating temperature	-54° C to +125° C

Electrical Characteristics	
Impedance	50 Ohms
Frequency Range	DC – 7.0 GHz
Insulation Resistance	5 M Ω min.
Voltage Standing Wave Ratio (VSWR) max.	1.05 : 1 max. @ 7.0 GHz
Dielectric withstanding voltage	The magnitude of the test voltage shall be 3,000 volts rms at 60 Hz
Contact resistance	The center contact resistance drop shall not exceed 1.0 milliohms max.
RF High Potential Withstanding Voltage	The RF high potential withstanding voltage is 2,500 volts rms at 5 MHz
RF leakage	Not applicable
Insertion Loss	0.1 dB @ 7.0 GHz
Power	1 KW max. CW @ 7.0 GHz 4.0 KW max. peak @ 7.0 GHz Proper installation and good heat dissipation are required !

Environmental Characteristics	
Vibration	MIL-STD-202, Method 204, Condition D
Mechanical shock	MIL-STD-202, Method 213, Condition I
Thermal shock	MIL-STD-202, Method 107, Condition B, except high temperature shall be + 200°C
Moisture resistance	MIL-STD-202, Method 106, step 7b (vibration) shall be omitted. Insulation resistance shall be 200 MΩ min. within 5 minutes of removal from humidity.
Corrosion	MIL-STD-202, Method 101, Condition B, 5% Salt Solution

Material and Finish	
Material	STEEL corrosion resistant 1.4305 per DIN 17440 (QQ-S-764, class 303 or ASTM-A-582-80) COPPER BERYLLIUM 33-25 CuBe2Pb H per DIN 17666 (ASTM B 196) TFE Fluorocarbon per DIN 52900 (MIL-P-19468 and L-P403)
Finish	STAINLESS STEEL: passivated per ASTM A 967 COPPER BERYLLIUM: Center contacts shall be gold plated to a minimum thickness of .00005 inch (1.25 µm) in accordance with ASTM B 488, Type 3, Code C, Class 1.25 * Outer conductor spring fingers shall be gold plated to a minimum thickness of .00003 inch (0.75 µm) in accordance with ASTM B 488

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