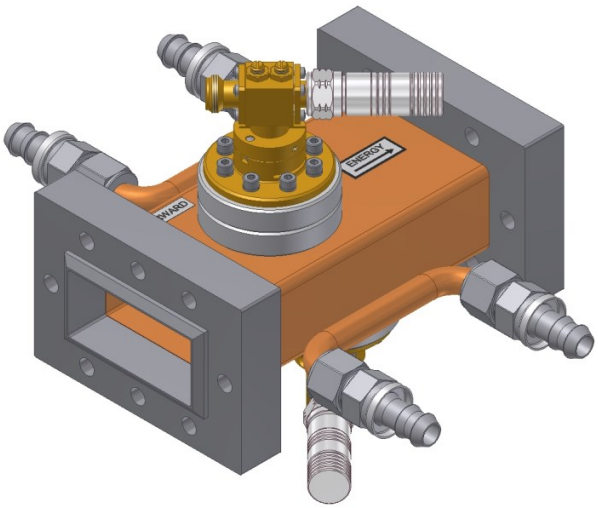
R32 Directional Coupler || BN 662027



Radio frequency characteristics

	main line	probe
Interface type / material / surface finish	LIL-flange, stainless steel, copper plated	N socket, copper alloy, silver plated
Frequency range	2.998 GHz ± 5 MHz	
Peak power capability	45 MW*	
VSWR, max.	1.05	1.1
Coupling attenuation, forward	60 dB ± 0.2 dB	
Coupling attenuation, reflected	60 dB ± 0.2 dB	
Directivity, min.	30 dB	
Insertion loss, typ.	0.02 dB	

** Conditions:*
- *Waveguide pressurized with SF_6 at absolute pressure, $4 \cdot 10^5$ Pa (4 bar) or waveguide evacuated to absolute pressure, max. $1 \cdot 10^{-4}$ Pa ($1 \cdot 10^{-6}$ mbar)*
- *Temperature of waveguide, max. 40 °C*
- *Load VSWR, max. ∞*
- *Pulse width, max. 15 µs*
- *Pulse repetition rate, max. 20 Hz*

General mechanical data

Differential operating pressure, max.	$3 \cdot 10^5$ Pa (3 bar)
Leakage rate, max.	$1 \cdot 10^{-10}$ Pa·m³/s ($1 \cdot 10^{-9}$ mbar·l/s)
Waveguide material	OFHC Copper
Waveguide surface finish	painted on request
Probe material	copper, copper alloy, stainless steel, ceramic, PS, PTFE
Interface water cooling	Swagelok Push-On compatible for hose DN ½”
Absolute operating pressure for water cooling, max.	$1 \cdot 10^6$ Pa (10 bar)
Bakeable to	170 °C (if selected without painting and probes dismounted) 80 °C (if probes mounted)
Weight, approx.	5.6 kg
Marking	adhesive label

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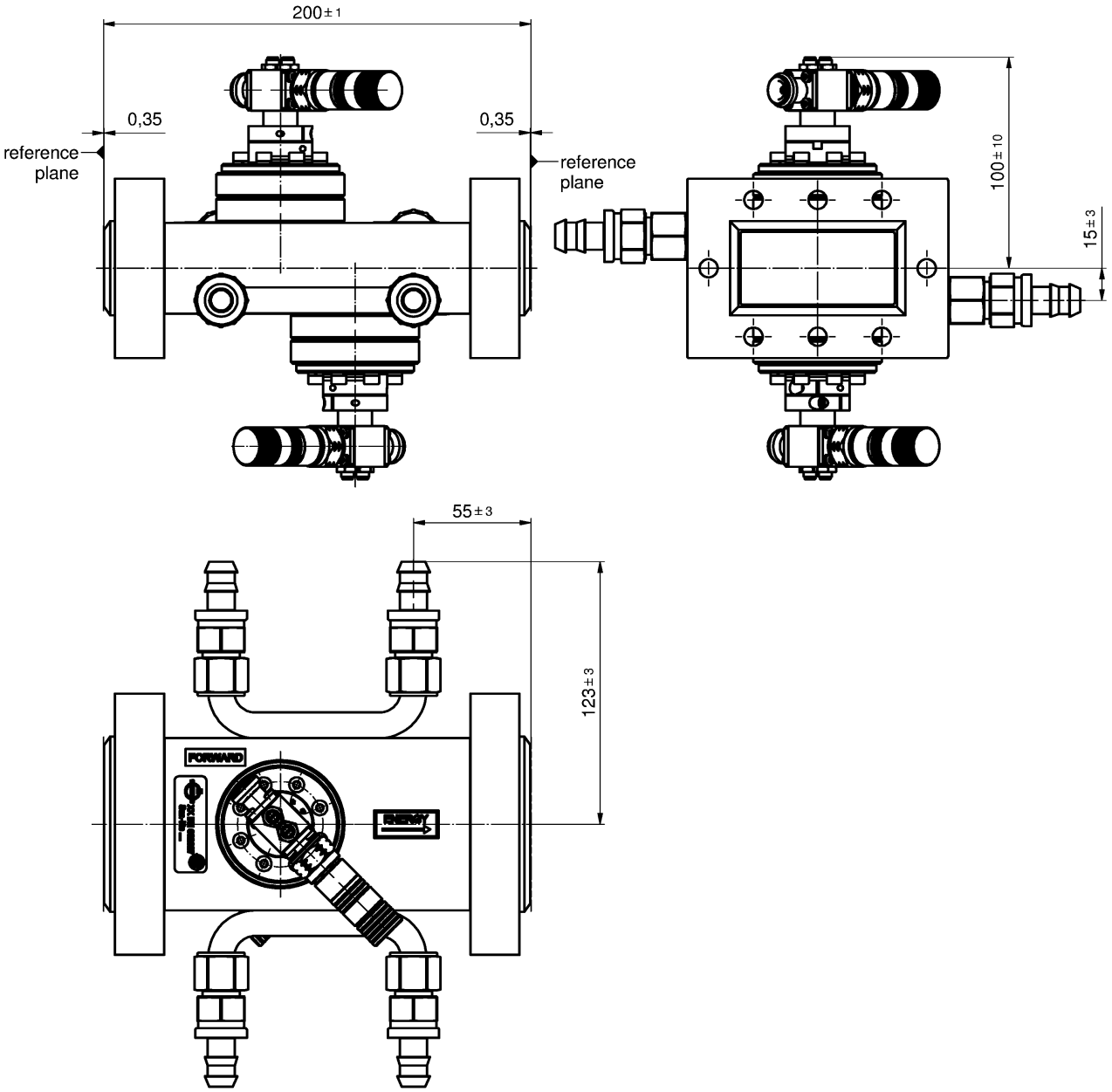
General environmental conditions

Operation	
Ambient temperature range	+10 to +50 °C
Relative humidity, max.	95% (condensation not permitted)
IP protection level	IP64 per EN 60529 (all interfaces connected with appropriate gaskets)
Storage	
Ambient temperature range	-20 to +50°C
Relative humidity, max.	95% (condensation not permitted)

Outline and dimensions



Template TD-00002G

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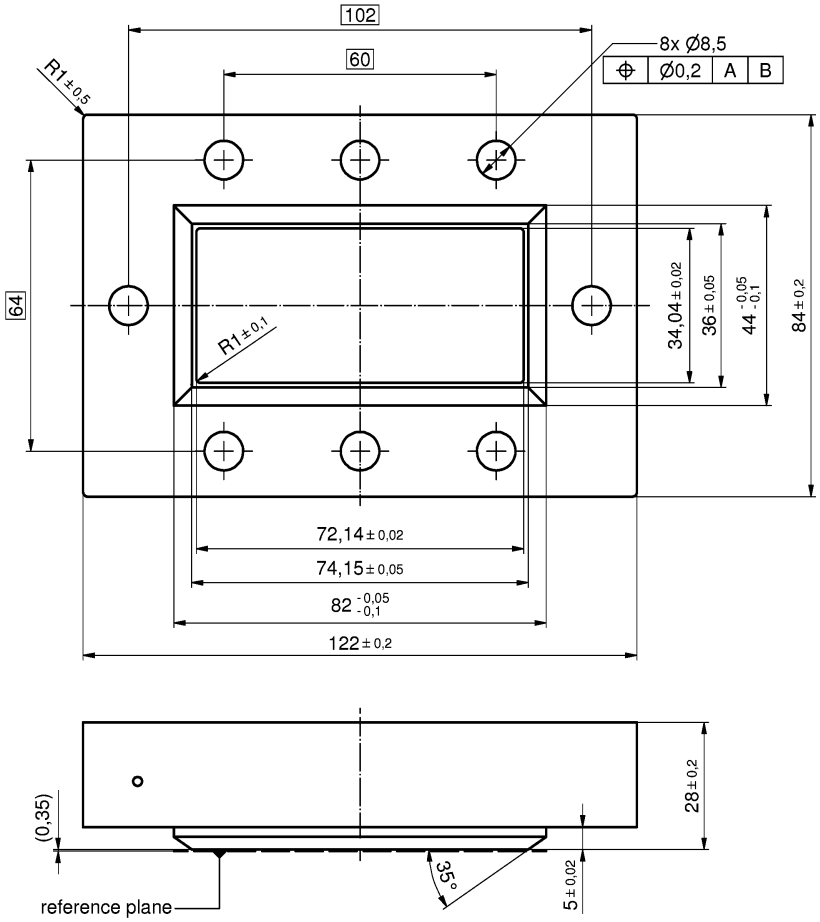

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