

NMR Probe Specifications

Model	JEOL Resonance 3.2 mm High Resolution 600 MHz AutoMAS probe		
Applicable Instrument Description	ECZR 600 MHz NMR system. Two-channel magic angle spinning (MAS) NMR probe With top-load auto-sample change. Magic angle spinning speeds up to 21 kHz with standard Zirconia rotors at room temperature with gas supply <60 psi. High frequency channel tuned to ¹ H at 600 MHz or ¹⁹ F at 565 MHz. Observe (X) channel tuning inserts supplied for ³¹ P, ⁷ Li, ¹¹ B, ²³ Na, ²⁷ Al, ¹³ C, ⁷⁹ Br, ²⁰⁷ Pb, ²⁹ Si, ⁶ Li, and ¹⁵ N. The probe is compatible with the JEOL Autotune accessory unit (NM-61160ATZ) within a selected frequency band. Requires ROTORCARRIER™ (NM-05710RC) and MAS controller (NM-62011MAS).		
Specifications	Signal-to-Noise ¹³C sensitivity ≥240 8 scans HMB Pulse Widths Standard Power Amplifiers: ¹H π/2 pulse width ≤4.1 μs At ≤50 W at 600 MHz ¹³C π/2 pulse width ≤3.4 μs At ≤180 W at 151 MHz Middle Power Amplifiers: ¹H π/2 pulse width ≤2.9 μs At ≤100 W at 600 MHz ¹³C π/2 pulse width ≤2.7 μs At ≤275 W at 151 MHz Resolution ¹³C resolution ≤0.1 ppm Adamantane (FWHM) Variable Temperature Variable temperature range is -60°C to +150°C with VT system.		

Notes:

Pulse width specifications are measured at the magic angle with sufficient air flow, at ambient temperature. Cross Polarization (CP) at field strengths up to 80% of the observe pulse strength up to 10ms duration. The probe may have ^{19}F background signals for single pulse experiments.