

NMR Probe Specifications

Model	JEOL Resonance 10mm 600MHz low gamma broadband high resolution NMR probe NM-60T10L																				
Applicable Instrument	ECZ, ECA, and ECX 600MHz NMR systems. For other models, please contact JEOL Resonance for specifications.																				
Description	Broadband low gamma nucleus observation high resolution NMR for 10mm sample tubes on 600MHz standard bore magnets. The inner coil may be tuned to observe any nucleus from ¹⁰³ Rh to ¹⁵ N. The outer coil is tuned to ¹ H. The probe is fitted with a 2H lock. The probe includes one (1) variable temperature compatible sample spinner																				
Specifications	Signal-to-Noise <table><tr><td>¹⁵N sensitivity</td><td>≥90:1</td><td>90% formamide w/o NOE</td></tr><tr><td>³⁹K sensitivity</td><td>≥600:1</td><td>3M KCl†</td></tr></table> Pulse Widths <table><tr><td>¹⁵N pulse width</td><td>≤32 μs</td><td>90% formamide w/o NOE</td></tr><tr><td>³⁹K pulse width</td><td>≤72 μs</td><td>3M KCl†</td></tr></table> Spinning Sidebands (SSB) <table><tr><td></td><td>≤2%</td><td>ASTM‡</td></tr></table> Resolution <table><tr><td>¹³C resolution</td><td>≤0.3 Hz</td><td>ASTM‡</td></tr></table> Variable Temperature Variable temperature range is -50°C to +120°C † ³⁹K values are for reference only and are not guaranteed specifications ‡ ¹³C is for probe specification only, not for experimental observation.			¹⁵ N sensitivity	≥90:1	90% formamide w/o NOE	³⁹ K sensitivity	≥600:1	3M KCl†	¹⁵ N pulse width	≤32 μs	90% formamide w/o NOE	³⁹ K pulse width	≤72 μs	3M KCl†		≤2%	ASTM‡	¹³ C resolution	≤0.3 Hz	ASTM‡
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