

850 MHz Double Resonance DOR Probe

PROBE TUNING

A N G L E - RED label

DOUBLE RESONANCE CONFIGURATION

¹H Channel: T U N E - WHITE / BLACK label
 M A T C H - WHITE / GREEN label

Tuning range 850 +/- 10 MHz

X Channel: T U N E - BLACK label
 M A T C H - GREEN label

Tuning range 49 – 279 MHz

MONORESONANCE CONFIGURATION

X Channel: T U N E - BLACK label
 M A T C H - GREEN label

Tuning range 42.3 – 282 MHz

Switching between configurations and X channel frequency ranges is possible by connecting contact pairs S1 – S5 with proper capacitors and jumpers (Figure 1, Tables 1 and 2).

Use attached instrument (Figure 2) for inner rotor rotation testing.

Table 1. X CHANNEL FREQUENCIES

Double resonance configuration – S1 and S4 open.

Frequency range MHz	Contacts		
	S2	S3	S5
269 – 279	Open	White	2.7 pF
262 – 272	Open	Black	2.7 pF
250 – 262	Open	Closed	2.7 pF
238 – 245	Open	Open	5 pF
225 – 242	Open	White	5 pF
200 – 230	Open	Black	5 pF
174 – 213	Open	White	8.2 pF
147 – 180	Open	Open	16 pF
135 – 154	8.2 pF	White	16 pF
101 – 145	Open	Open	Closed
83.2 – 109	8.2 pF	Open	Closed
73.5 – 90	16 pF	Open	Closed
65.5 – 76.2	8.2 pF + 16 pF	Open	Closed
60.5 – 68.3	30 pF	Open	Closed
55.6 – 61.8	8.2 pF + 30 pF	Open	Closed
52.2 – 57.3	16 pF + 30 pF	Open	Closed
49.1 – 53.2	8.2 pF + 16 pF + 30 pF	Open	Closed

Table 2. X CHANNEL FREQUENCIES

Monoresonance configuration – S1 and S4 closed.

Frequency range MHz	Contacts		
	S2	S3	S5
270 – 282	Open	Closed	2.7 pF
257 – 261	Open	Open	5 pF
251 – 259	Open	White	5 pF
242 – 253	Open	Black	5 pF
217 – 242	Open	Closed	5 pF
190 – 225	Open	Black	8.2 pF
162 – 200	Open	White	16 pF
149 – 169	8.2 pF	White	16 pF
111 – 160	Open	Open	Closed
92 – 120	8.2 pF	Open	Closed
81.2 – 99	16 pF	Open	Closed
72.5 – 84.6	8.2 pF + 16 pF	Open	Closed
67 – 75.9	30 pF	Open	Closed
61.9 – 68.7	8.2 pF + 30 pF	Open	Closed
58.2 – 63	16 pF + 30 pF	Open	Closed
54.7 – 59.3	8.2 pF + 16 pF + 30 pF	Open	Closed
51.4 – 55.2	8.2 pF + 51 pF	Open	Closed
49.2 – 52.5	16 pF + 51 pF	Open	Closed
47.1 – 49.9	8.2 pF + 16 pF + 51 pF	Open	Closed
45.5 – 47.9	30 pF + 51 pF	Open	Closed
43.8 – 45.9	8.2 pF + 30 pF + 51 pF	Open	Closed
42.3 – 44.3	16 pF + 30 pF + 51 pF	Open	Closed

Figure 1. CONTACTS S1 – S5

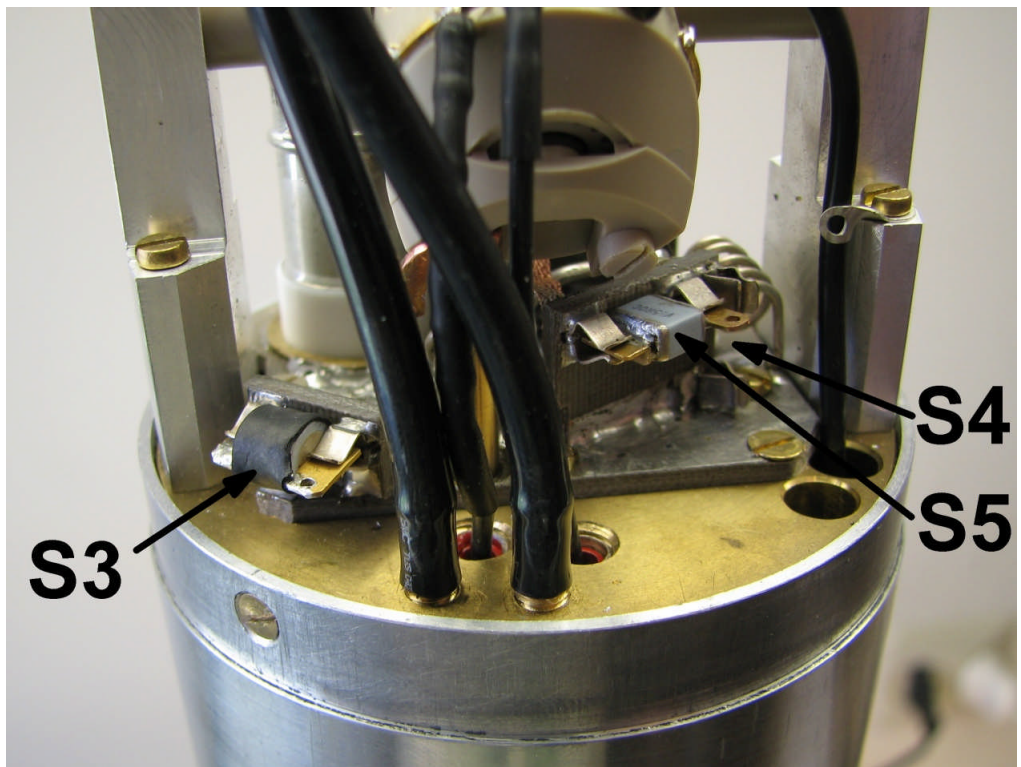
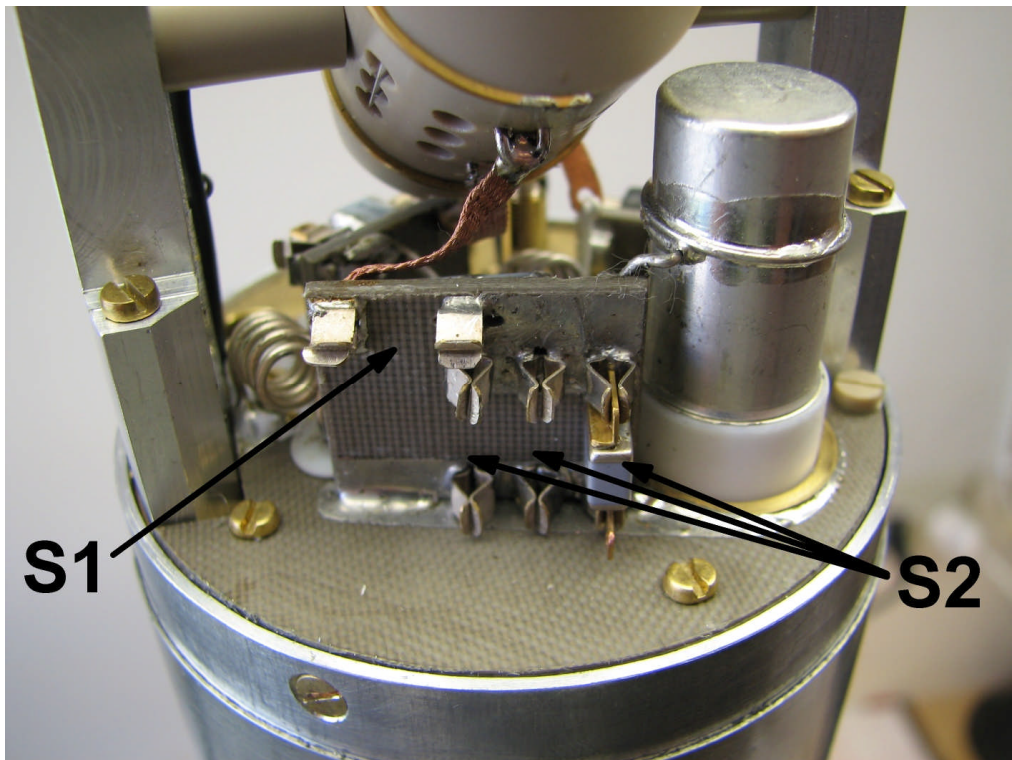


Figure 2. ROTATION TEST INSTRUMENT

