



MR Range Ultimate Audio Grade Capacitor



μf	Lx \emptyset (mm)	Price	μf	Lx \emptyset (mm)	Price
0.82	40 x 38	\$44.10	6.80	85 x 50	\$117.35
1.00	40 x 38	\$45.15	8.20	85 x 50	\$119.50
2.20	50 x 38	\$55.20	10.0	85 x 50	\$123.30
3.10	65 x 38	\$66.15	12.0	85 x 76	\$185.30
3.30	65 x 38	\$66.50	15.0	85 x 76	\$189.60
3.90	50 x 50	\$75.25	16.0	85 x 76	\$191.45
4.10	50 x 50	\$76.25	18.0	85 x 76	\$195.15
4.70	50 x 50	\$77.55	22.0	85 x 76	\$196.00
5.60	65 x 50	\$94.30	27.0	85 x 76	\$203.70
6.20	65 x 50	\$95.40		1" = 25.4mm	

- Metallized Polypropylene
- **Series design** - two cap values in series to created final value.
- Tolerance **+35%**
- Dissipation factor $\leq 0.001@1\text{kHz}$
- **Rated Voltage 630Vdc**
- Dielectric absorption $\leq 0.1\%$
- Jacket - colored acrylic tube
- Insulated copper leads, 70mm

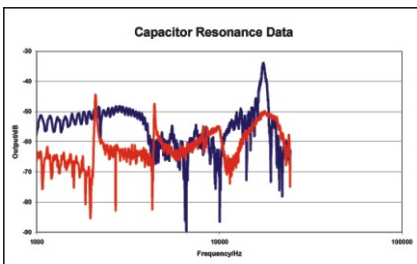
The MR range of capacitors is, we believe, the ultimate audio grade capacitor currently available on the market.

It is the result of a two year research programme into the influence an audio capacitor has on overall system sound quality. The research programme was conducted in cooperation with the world renowned Acoustics Research Centre at the University of Salford.

No stone was left unturned; the research encompassed all of the materials used in audio capacitors and any existing performance data together with analysis of manufacturing processes and techniques. The crucial factor to emerge was the effect that mechanical resonances within a capacitor have on sound quality and the importance of reducing or controlling a capacitor's sonic output.

The new MR range harnesses all of the knowledge gathered throughout the research programme and we believes offers the market a superior product based upon science and research rather than snake oil.

The capacitor employs a non standard polypropylene film and is housed in a coloured acrylic tube, has hand soldered copper terminals and is encapsulated in resin.

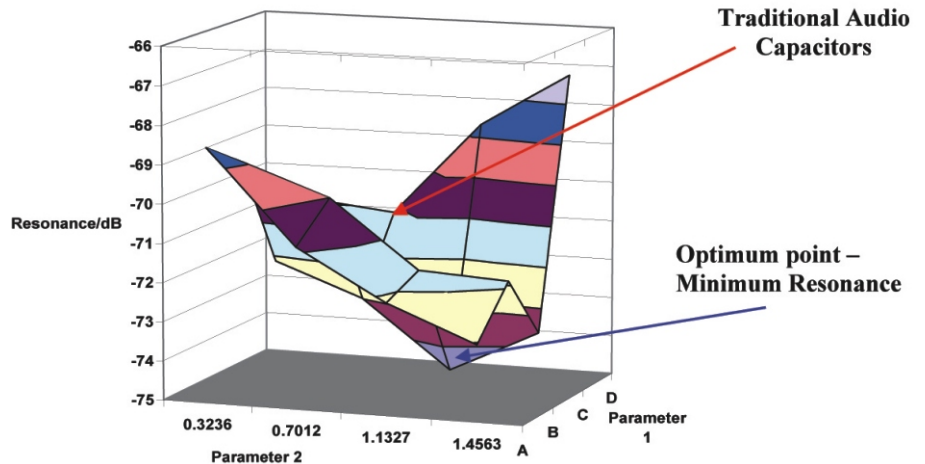


Two measuring techniques were used to measure the **mechanical resonance** of the capacitors. This is a physical deformation of the capacitor walls when a signal is passed through the capacitor. The amount of resonance is dependent on the size, shape, materials and manufacturing process. This resonance has never been considered to be a factor in the sound quality of the capacitor before.

Listening tests have shown that mechanical capacitor resonance is factor in sound quality, with 70% of the participants clearly preferring the sound from lowered mechanical resonance capacitors.

The MR caps have been specifically designed to address this problem.

Graph of Resonance vs Manufacturing Parameters



Please visit our web site for a complete white paper on reducing capacitor mechanical resonances. www.madisound.com