

FORMULA 3.856.5

$$\int_0^{\infty} \frac{\cos(a^2 x^2) dx}{\sqrt{\beta^4 + x^4} \sqrt{(x^2 + \sqrt{\beta^4 + x^4})^3}} = \frac{\sinh \frac{a^2 \beta^2}{2}}{2\sqrt{2}\beta^4} K_1 \left(\frac{a^2 \beta^2}{2} \right)$$