$$\frac{x\_0^2}{x\_0\, H_2^{(1)}(x\_0) + H_1^{(1)}(x\_0)}$$

$$\frac{x\_0}{H_1^{(1)}(x\_0)}$$

$$1/2\,\frac{B\_0\,\sin(a)\,e^{i(x+etha)}}{x}$$

$$\frac{i/2 B\_0\,\sin(a)\,e^{i(x+etha)}\cos(a)}{x}\left(\frac{x\_0^2}{x\_0\, H_2^{(1)}(x\_0) + H_1^{(1)}(x\_0)} - \frac{x\_0}{H_1^{(1)}(x\_0)}\right)$$

$$-1/2\,\frac{B\_0\,\sin(a)\,e^{i(x+etha)}}{x}\left(\frac{x\_0^2\cos(2\,a)}{x\_0\, H_2^{(1)}(x\_0) + H_1^{(1)}(x\_0)} - \frac{x\_0}{H_1^{(1)}(x\_0)}\right)$$

$$\frac{eps\_0\; c^4 x^2}{w^2}$$

$$\frac{{}^2\,(\sin(a))^2\,\left(e^{i(x+etha)}\right)^2(\cos(a))^2\, eps\_0 c^4}{w^2}\left(\frac{x\_0^2}{x\_0\, H_2^{(1)}(x\_0) + H_1^{(1)}(x\_0)} - \frac{x\_0}{H_1^{(1)}(x\_0)}\right)^2 + 1/4\,\frac{B\_0^2\,(\sin(a))^2\left(e^{i(x+etha)}\right)^2}{x^2}\left(\frac{x\_0^2 \cos}{x\_0\, H_2^{(1)}(x\_0) +}\right.$$

Let's define the first term with numerator x_0^2 as t and the second one as z.
Then, without the constants, the integral turns into this form:

maplegroup $$\frac{4\,t^2}{15} + 8/3\,tz + 4/3\,z^2$$