

Abstract**MULTIWAY PLANAR MICROSTRIP POWER COMBINER / DIVIDER FOR
SOLID-STATE MICROWAVE POWER AMPLIFIER APPLICATIONS.**

A multiway tapered planar microstripline microwave power divider whose equal-amplitude, in-phase output ports are co-linearly located is disclosed. The conductor pattern of the divider 1 essentially consists of a tapered section 3 with symmetrically disposed holes 8, with the input port 2 at the narrow end 6, and the internal output ports 7 equally spaced and symmetrically disposed across the linear wide end 5. The symmetrically disposed holes 8 ensure that the output signals obtained from the co-linear internal output ports 7 have equal amplitude and are in-phase over the bandwidth of the divider. The input port 2 located at the narrow end 6 has a low reflection coefficient over the bandwidth of the divider.

Fig. 3 is to be published.