

Miniature Directional Couplers for Medium Power Applications



MECA offers a series of miniature, 50-watt, stripline directional couplers ideal for applications between 500 MHz and 18 GHz where precise power monitoring, external leveling, signal mixing or swept transmission and reflection measurements are necessary. Nominal coupling values of 10, 20 and 30 dB are standard.

Applications will benefit from coupling flatness, high directivity, low VSWR and low insertion loss. Mechanical features include SMA-Female connectors, gold plated contact pins, virgin electrical grade Teflon insulation within the connectors and an ultra-compact aluminum housing. Operating temperature range is from -65 ^\circ C to +150 ^\circ C, and the power rating 50 watts average (3 kW peak).

All models may be used for bi-directional coupling by removing the external termination, and alternate frequency ranges, coupling values and connector configurations are also readily available in quantity.

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<http://www.wirelessdesignmag.com/product-releases/2002/01/miniature-directional-couplers-medium-power-applications>