

# FEATURED POWER DIVIDERS

## RF/MW COMPONENTS



### DMU 310X 3-Way Power Divider, X Band

TRM's new broad band unequal 3-Way power divider is ideal for a wide range of wireless radio frequency applications and is designed for use in military and commercial airborne applications.

The very light (less than 40 grams) DMU310X electrical performance is highlighted by 0.7 dB max insertion loss, greater than 18 dB isolation and 1.30:1 max input VSWR. It's unequal power split is displayed with two ports at -5.9 dB and one port at -3.8 dB with equal phase balance of  $\pm 0.6$  across all ports.

It's housing dimensions are 2.04 inches wide by .85 inches high and .5 deep (51.8 x 21.6 x 12.7 mm), the SMA connectors extend .375 inches (9.5mm). The tested operating temperature range is -55°C to +85°C.



### DMS 4319 Power Divider, 0.38 - 6 GHz

The DMS 4319 is TRM's latest addition to a line of very small power dividers with exceptional low insertion loss and amplitude, phase balance and unit to unit phase tracking.

Its broad frequency range makes it suitable for a wide range of wireless communications applications, including in GPS, GSM, DCS, PCS, WiFi, Bluetooth, and IEEE 802.11a/b/g/n/y WLAN systems. Isolation between ports typically ranges from 14 dB to 18 dB, with typical insertion loss of 1.5 dB and maximum VSWR of 1.80:1. The divider boasts amplitude balance of typically  $\pm 0.3$  dB and phase balance of typically  $\pm 4$  deg. across the full frequency range.

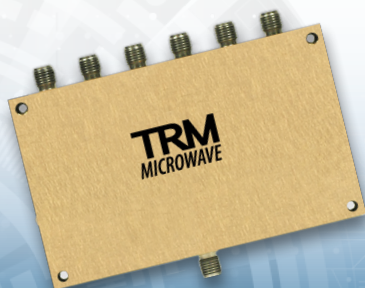
The four-way power divider, which features an integrated broadband DC blocking capacitor, is rated for maximum input power of 30 W. It is supplied in a compact package measuring just 2.5 x 3.75 x 0.38 in. with side mounting surface and SMP connectors for space-limited locations.



### DL 42030 4-Way Power Divider, 20 - 3000 MHz

The DL42030 is the newest member of a family of power dividers/combiners and couplers delivering exceptional phase balance of  $\pm 2^\circ$ . Typically, it offers isolation performance of 25 dB while exhibiting insertion loss of 2.25 dB. The DL42030 provides input and output return losses of 14 and 18 dB, respectively while VSWR is a maximum of 1.50:1. Its amplitude balance is 0.3 dB and phase balance to  $5^\circ$ . The component handles maximum input power of 1 W. It measures 2.5 x 1.18 x 0.50 in. and comes standard with SMA female connectors.

This rugged unit is designed to operate over the temperature range of -55°C to +125°C. Military screening options are available upon request.



### DMS-648-ES Power Divider, 6 - 20 GHz

The DMS-648-ES is a compact, airborne moisture sealed six-way power divider covering the frequency range of 6 to 20 GHz and is used in airborne radar and surveillance systems.

This rugged broadband power divider provides low insertion loss of 8.7 dB with high isolation of 15 dB and an input/output return loss of 17.7 dB. Maximum amplitude and phase balances are 1.2 and 10 degrees respectively. The packaging dimensions are 3.5" x 2.1" x .38" and weighs just over 5 ounces. SMA female connectors are standard. The tested operating temperature range is -55°C to +85°C.

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### 16-Way Power Divider Covers 20 – 3000 MHz

Model DL 162030 is a broadband, 16-way power divider that is well suited for radar and satellite-communications (satcom) from 20 to 3000 MHz.



This reliable component is designed for systems requiring an even division of input power, providing signals at 16 output ports that are well balanced in amplitude and phase. The maximum amplitude balance is  $\pm 0.8$  dB while the phase imbalance between output ports is  $\pm 10$  deg. Isolation between output ports is at least 18 dB. The maximum input and output VSWR is 1.60:1. The DL162030 is rated for CW input power levels to 20 W, and delivers output signals with maximum insertion loss of 4.5 dB. It is supplied in a rugged aluminum housing measuring 9.4 x 3.0 x 0.40 in. with SMA connectors. The power divider is designed for operating temperatures from -15 to +55°C.

### 16-Way Power Divider Spans 2.5 To 6.5 GHz

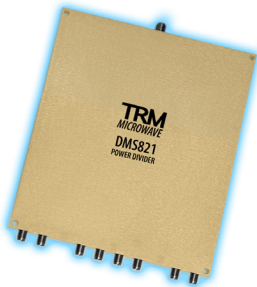
TRM's DMS 1645 broadband power divider is suitable for radar and ground-based satellite communications (satcom) applications requiring low-loss division of power from a single input to 16 output ports in the 2.5 to 6.5 GHz frequency range.



This model is available with either BMA or SMA connector types. The maximum insertion loss is less than 1.8 dB at 6.5 GHz with minimum isolation of 20 dB. The maximum input VSWR is 1.5:1 and maximum output VSWR is 1.25:1. The 16-way power divider features excellent channel-to-channel balance, with amplitude balance of  $\pm 0.5$  dB and phase balance of 8°. It is rated for maximum input power level of 30 W and tested over operating temperatures from -15° to +55° C.

### Ultra-Broadband 8-Way Power Divider, 2-18 GHz

The DMS821 ultra-broadband 8-way power divider is used in applications that include complex telecommunication lab configurations, test equipment, phase arrays and specific test modules. Stripline circuit construction provides optimal performance.



The electrical parameters of this component operating in the frequency range of 20-3000 MHz is highlighted with an excellent insertion loss of 2 dB max, 18 dB min isolation, 1.5:1 max input VSWR and 1.5:1 max output VSWR. Amplitude and phase balance are  $\pm 0.5$  dB and  $\pm 4$  degrees respectively. Its power rating is 1 watt and the compact package size (1.25" x .7" x .5") allows this extremely lightweight component to fit into space limited locations. Tested temperature range is -40° to +70° C. SMA connectors are standard.



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