

Power Divider

D-8066

SMA 8-way Power Divider from 600 MHz to 6 GHz

Werbel Microwave designs and manufactures a wide selection of power dividers combiners splitters. These components are used in RF systems to combine multiple signals or split into multiple signals of equal magnitude and phase. Werbel Microwave offers designs of Wilkinson, resistive, ferrite and reactive technology and are among the highest performance in the industry.

The D-8066 is an 8-way Wilkinson divider that operates from 600 MHz to 6 GHz and can handle up to 30 watts CW as a splitter. It is part of Werbel Microwave's catalog of splitters that offer a wide range of port count and frequency ranges.

Electrical Specifications at +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, sea level

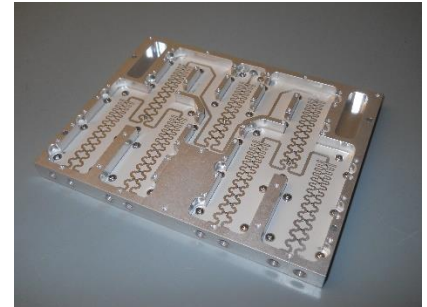
Parameter	Unit	Min	Typ.	Max
Frequency Range	MHz	600		6000
Insertion Loss				
600-3500MHz	dB			1.5
3500-6000MHz	dB			2.5
Input/Common VSWR				
600-698MHz	:1			1.9
698-6000MHz	:1			1.7
Output/Split VSWR	:1		1.15	1.4
Isolation	dB	18	22	
Amplitude Balance	dB		0.4	0.9
Phase Balance	Deg		4	12
Input Power (CW)	W			30
Operating Temperature	°C	-55		+85
Storage Temperature	°C	-55		+100
Weight	oz (g)		19 (540)	
Humidity (non-condensing)	%	10		90
Housing Material	Aluminum			
Connectors Material	Brass, Gold Plated			

Insertion loss is above theoretical splitting loss.

Max input power rated for use as a splitter into load VSWR better than 1.20:1.

Commonly used bands and applications covered by this model include: 698MHz-2.7GHz, L band 1 to 2 GHz, S band 2 to 4 GHz, 4G, 5G, LTE, Cellular, CDMA, PCS, UMTS, 824-894MHz, GSM, DCS, GPS, WiMax, WiFi, IMT, PDC, SMH, Uplink and Downlink, CBRS, Extended and Supplementary AWS.

Picture:



Features:

- Wide Bandwidth
- Low Insertion Loss
- Small Size

Applications:

- Test and Measurement
- Military Communications
- Commercial Telecom
- Wireless, Satellite

ISO 9001:2015 Certified



Made in USA



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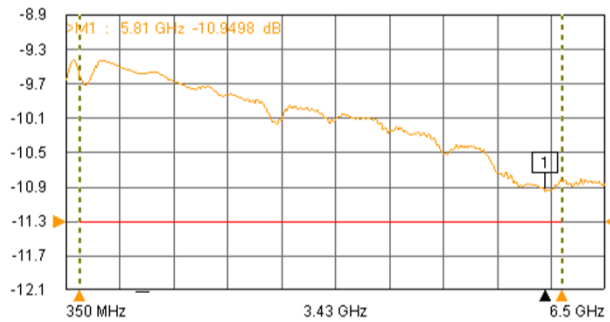
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Typical Performance at +25 °C

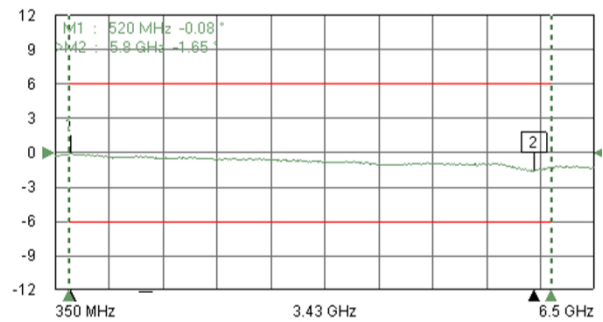
Data is representative. Actual unit performance may vary.

Insertion Loss / Phase

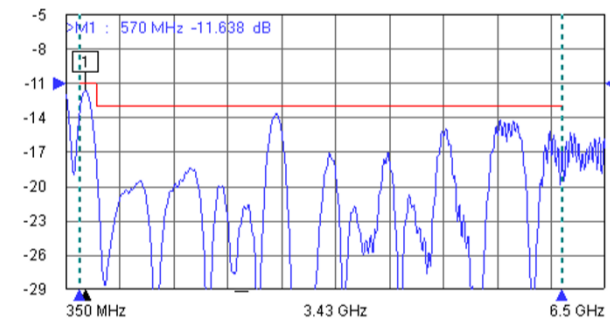
Tr1 S21 Trans LogM RefLvl: -11.3 dB Res: 0.4 dB/Div



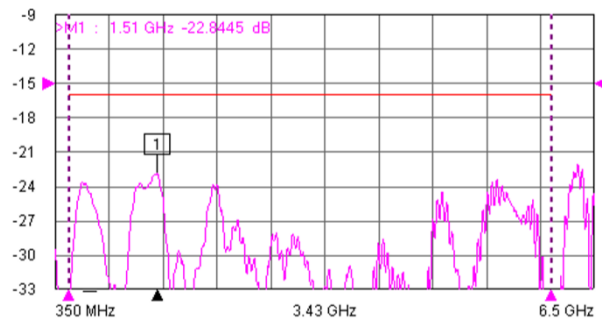
Tr2 [D/M] S21 Trans Phase RefLvl: 0 ° Res: 3 °/Div



Tr3 S11 Refl LogM RefLvl: -11 dB Res: 3 dB/Div

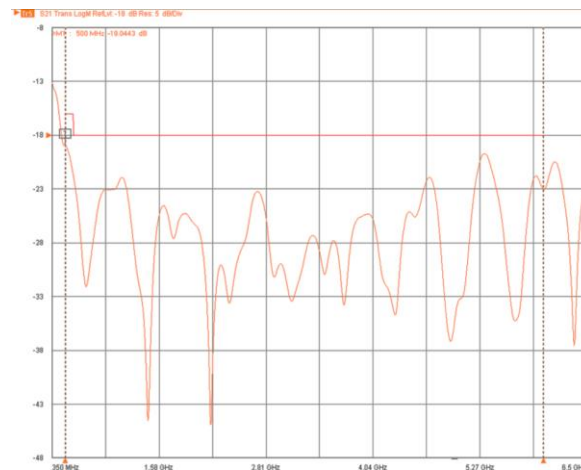


Tr4 S22 Refl LogM RefLvl: -15 dB Res: 3 dB/Div



Input / Output Return Loss

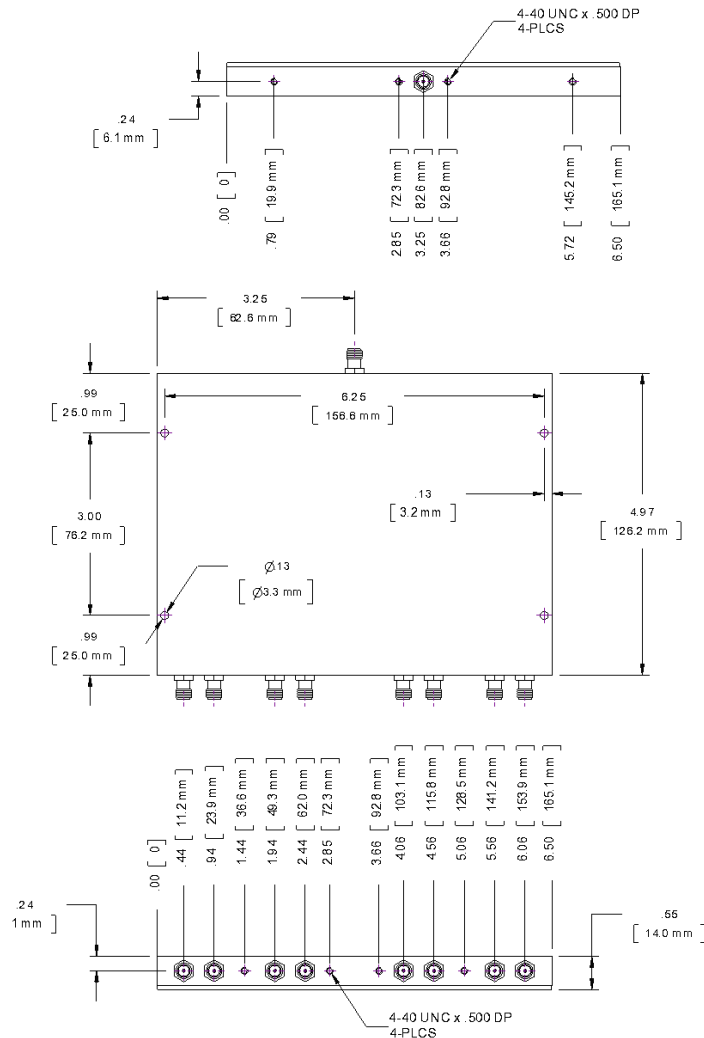
Isolation



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Mechanical Outline Drawing



UNLESS OTHERWISE SPECIFIED: Dimensions are in inches, [mm] shown for convenience.
Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$. Angles: $\pm 1^\circ$.

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or documentation of the part, in order to implement improvements. Werbel Microwave reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications are nominal. Werbel Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Werbel Microwave does not assume any liability arising out of the use of any part of documentation.