

TRM Microwaves' High Power product line includes directional couplers, power combiners and dividers, quadrature hybrids, switches and multi-function assemblies designed and built to your specific requirements. All of our products are engineered to achieve optimal electrical performance, meet size and weight requirements and are highly customizable.

We routinely modify existing designs from our catalog of parts to accommodate unique, stringent military and commercial requirements for Combat Radar Systems, Military Radio Communications, Weather Radar, RF Jamming and Countermeasures, Aviation Communications and Medical Imaging and Radiology.

Broadband Couplers

- Connectorized & Surface Mount
- 10 KHz to 8 GHz
- 6 to 60 dB
- Power levels to 100 KW

Narrow Band Couplers

- Connectorized & Surface Mount
- 10 KHz to 8 GHz
- 6 to 60 dB
- Power levels to 100 KW

Custom 3dB Quadrature Hybrids

- 1.5 MHz to 8 GHz
- Power levels to 5 KW

N-Way Combiners & Dividers

- 10 KHz to 2.5 GHz
- 2 to 64-Way
- Power levels to 5 KW

0-180° Hybrids

- 500 KHz to 2.5 GHz
- Power levels to 5 KW

Drop-In Combiners & Dividers

- 10 KHz to 2.5 GHz
- Power levels to 12 KW

Quadrature Combiners & Dividers

- 1.5 MHz to 2.5 GHz
- Power levels to 5 KW

Harmonic Filters

- Narrow & Broadband
- 16 KW Peak, 3 KW Average



Featured High Power Combiners

Part Number	Split	Frequency MHz	Average W	Peak W	Isolation dB
7012601	2-Way	1.5-30	10000	20000	20
7012602	2-Way	2-30	10000	20000	20
7012603	2-Way	30-88	1200	4000	25
7012604	2-Way	30-150	1000	5000	20
7012605	2-Way	100-500	1000	5000	18
7012606	2-Way	225-250	200	1000	30
7012607	2-Way	500-1000	1000	5000	18
7012609	4-Way	1.5-32	7000	10000	20
7012610	4-Way	1.5-50	200	1000	18
7012611	4-Way	1.6-30	5000	10000	20
7012612	4-Way	1.7-30	450	1200	
7012613	4-Way	2-30	1200		30
7012614	4-Way	2-30	4000		30
7012615	4-Way	30-150	600	1200	
7012616	4-Way	203-258	150	600	30
7012617	4-Way	400-1000	1500		15
7012618	4-Way	400-1000	4000		15
7012619	6-Way	1.5-30	6000	12000	20
7012608	8-Way	1.5-30	12000	20000	20
7012620	8-Way	95-510	3000	10000	
7012621	8-Way	100-500	600	1200	
7012622	8-Way	150-174	300	3000	40
7012623	8-Way	400-1000	600	1200	18
7012624	8-Way	400-1000	1200	4000	18
7012625	8-Way	420-475	300	2000	20
7012626	8-Way	490-1010	2500	10000	18

Featured High Power Dividers

7013401	4-Way	1.5-50	20	100	18
7013402	4-Way	1.7-30	30	300	18
7013403	4-Way	2-30	40		30
7013404	4-Way	2-30	100	1000	30
7013405	4-Way	30-150	35	350	
7013406	4-Way	80-500	200		15
7013407	4-Way	400-1000	200		18
7013408	4-Way	448-450	2400	12000	20
7013409	8-Way	95-510	300	1000	15
7013410	8-Way	100-500	50	500	
7013411	8-Way	100-700	5	100	15
7013412	8-Way	400-1000	80	160	18
7013413	8-Way	400-1000	200	1000	15
7013414	8-Way	490-1010	500	2000	18
7013415	64-Way	447.5-450.5	300	1200	
7013416	64-Way	447.5-450.5	600	3000	

Featured High Power Directional Couplers - Use any standard model as a starting point to build a custom design.

Part Number	Frequency (MHz)	Power (Avg Watts)	Nominal Coupling (dB)	Coupling Flatness (± dB, Max)	Insertion Loss (dB, Max)	VSWR Main Line (Max)	Directivity (dB, Min)	Coupler Type
1583-C30	1.5-32	100	30	0.5	0.1	1.10:1	25	BDC
1277-C40	1.5-32	2500	40	0.5	0.05	1.10:1	30	DDC
1624-C60	1.5-32	14000	60	0.5	0.05	1.05:1	30	DDC
1908-C40	2-30	500	40	0.25	0.15	1.30:1	25	DDC
1619-C60	2-30	10000	60	0.5	0.05	1.05:1	30	DDC
1159-C40	2-32	1000	40	0.2	0.1	1.15:1	30	DDC
1135-C30	10-100	250	30	0.3	0.2	1.20:1	20	DDC
1137-C40	10-100	1000	40	0.5	0.2	1.20:1	20	DDC
2084-C40	13-14	20000	40	0.25	0.05	1.05:1	30	DDC
DDH 4020100	20-100	25	20/40	0.5	0.2	1.15:1	20	DDC
2011-C50	20-1000	200	50	0.5	0.4	1.20:1	20	DDC
1366-C60	20-100	4000	60	0.1	0.05	1.05:1	25	DDC
1935-C4020	25-400	200	20/40	1	0.4	1.30:1	18	DDC
1621-C50	25-400	500	50	0.5	0.1	1.07:1	20	DDC
1934-C4020	25-1000	8	20/40	1	0.8	1.50:1	18	DDC
1452-C1430	30-90	100	14/30	0.3	0.3	1.20:1	20	DDC
DDH 4530512	30-512	500	50	0.5	0.1	1.15:1	20	DDC
2106-C40	80-1000	200	40	0.5	0.35	1.20:1	20	DDC
2157-C30	100-400	100	30	0.5	0.25	1.20:1	20	DDC
1136-C30	100-500	250	30	0.5	0.25	1.20:1	20	DDC
1138-C40	100-500	1000	40	0.5	0.2	1.20:1	20	DDC
1370-C45	100-500	1500	45	0.25	0.1	1.10:1	26	DDC
DDH 40100512	100-512	150	20/40	0.5	0.2	1.15:1	20	DDC
1080-C40	100-1000	160	40	0.25	0.2	1.20:1	20	DDC
1927-C40	100-1000	150	40	0.5	0.25	1.20:1	27	DDC
1777-C3006	140-460	100	6/30	0.5	0.3	1.20:1	20	DDC
1793-C10	150-174	50	10	0.3	0.7	1.30:1	20	UDC
2081-C20	150-174	150	20	0.5	0.2	1.15:1	25	DDC
1564-C40	150-174	300	40	0.1	0.2	1.15:1	30	UDC
1819-C8	150-175	100	7.5	0.5	1.3	1.20:1	25	UDC
1165-C9	225-400	100	9	1	1.5	1.30:1	20	UDC
1840-C30	225-400	200	30	0.5	0.2	1.15:1	25	DDC
1835-C1430	225-450	100	14/30	1	0.5	1.20:1	25	DDC
DDH 40225570	225-570	50	20/40	0.5	0.2	1.15:1	20	DDC
2134-C30	270-320	125	30	0.75	0.3	1.20:1	20	DDC
1579-C50	400-500	1000	50	0.5	0.1	1.10:1	26	DDC
1683-C20	400-1000	250	20	0.5	0.3	1.20:1	20	DDC
DDH 50041	400-1000	1000	50	0.3	0.1	1.15:1	20	DDC
2234-C40	1000-2500	150	40	0.3	0.2	1.15:1	20	DDC
DDH 4016	1000-6000	250	40	0.5	0.2	1.5:1	18	DDC
DDH 40076	700-6000	250	40	0.5	0.2	1.5:1	18	DDC

High Power Directional Couplers Selection Guide

Featured High Power Hybrid

Part Number	Quad Combiner	Freq MHz	Average W	Peak W	Isolation dB
7017201	2-Way	30-512	100		18
7017202	2-Way	100-512	120		
7017203	2-Way	118-174	300	1000	20
7017204	4-Way	1.5-32	3000	6000	20
7017205	4-Way	2-30	600	1200	20
7017206	4-Way	20-500	200	1000	18
7017207	4-Way	25-400	250	1000	18
7017208	4-Way	25-400	300	1000	18
Part Number	Quad Divider	Freq MHz	Average W	Peak W	Isolation dB
7017301	2-Way	118-174	50	200	20
7017302	4-Way	1.5-32	100	1000	20
Part Number	Quad Hybrid	Freq MHz	Average W	Peak W	Isolation dB
7017401	QH	0.9-1	1600	5000	
7017402	QH	13-14	14000	50000	
7017403	QH	140-150	25	250	
Part Number	Hybrid Combiner/Divider	Freq MHz	Average W	Peak W	Isolation dB
7014901	Combiner/Divider	30-400	10	100	18
7014902	Hybrid, Coupler/Divider	225-400	100		

About TRM Microwave

TRM is a global leader in the design and manufacture of RF and microwave components, integrated assemblies and subsystems for defense, aerospace and commercial applications.

Founded in 1970, TRM Microwave is located in Bedford, NH and its products are promoted through a dedicated, experienced and knowledgeable team of independent field sales representatives throughout the US and international markets.

Our engineering team is looking forward to working with you on your next high power project. Call us today!

CONTACT INFORMATION

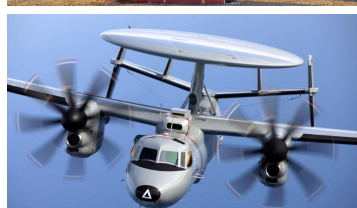
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