



KRYTAR®

Ultra-Broadband High Performance Components DC - 110 GHz



Directional Couplers

Dual Directional Couplers

3 dB 90 Degree Hybrid Couplers

3 dB 180 Degree Hybrid Couplers

MLDD Power Dividers

Coaxial Terminations

Coaxial Adaptors

Planar Doped Barrier Detectors

Zero Bias Schottky Detectors

Planar Tunnel Diode Detectors

Threshold Detectors

Directional Detectors

Pin-Schottky Limiters

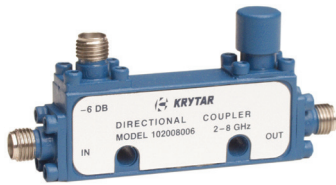
Pin-Pin Limiters

KRYTAR®

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SINCE 1975

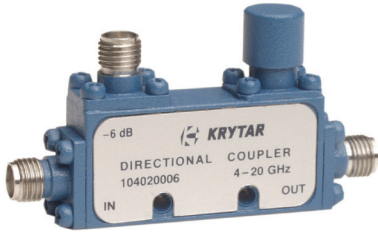
NOTES



Directional Couplers

Directional Detectors

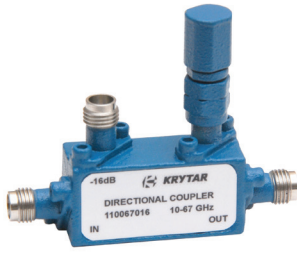
Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Model	Low Level Sensitivity ($\mu\text{V}/\mu\text{W}$)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
1 - 4	101004006	6 \pm 0.5	\pm 0.50				1.30	20	1.20
	101004010	10 \pm 0.8				1.00			
	101004020	20 \pm 0.5				0.80			
	101004030	30 \pm 0.5				0.5			
0.4 - 4	100404010	10 \pm 0.5	\pm 0.50				1.10	16	1.20
	100404020	20 \pm 0.8				0.75	20		
2 - 8	102008006	6 \pm 0.5	\pm 0.25	202008006	100	\pm 0.30	1.60	20	1.20
	102008010	10 \pm 0.5		202008010	40		0.75		
	102008020	20 \pm 1.0		202008020	4		0.35		
0.5 - 8	158006	6 \pm 1.1	\pm 0.60	158006S	100	\pm 0.80	1.70	15	1.35
	158010	10 \pm 1.0		158010S	40		1.30		
	158016	16 \pm 1.0		158016S	10	0.85			
	158020	20 \pm 1.0		158020S	4	0.80			
	158030	30 \pm .80				0.80	16		
0.3 - 8	100308006	6 \pm 1.1	\pm 1.20				2.0	10	1.4
	100308010	10 \pm 1.0	\pm 1.20				1.30	20	1.18
	100308016	16 \pm 1.2	\pm 1.00				1.00		1.15
	100308020	20 \pm 1.0	\pm 1.20				0.85		
	100308030	30 \pm 0.7	\pm 1.20				0.85		
2 - 8.6	102008616	16 \pm 1.0	\pm 0.25				0.50		20
0.6-12	100612020	20 \pm 1.0	\pm 1.20				1.00	15	1.2
7 - 12.4	120706	06 \pm 0.5	\pm 0.30				1.80	15	1.35
	120710	10 \pm 0.5		120710S	40	\pm 0.40	0.90		
	120720	20 \pm 1.0		120720S	4	0.50			
	120730	30 \pm 1.0				0.50			
4 - 12.4	120406	06 \pm 0.5	\pm 0.30				1.80	15	1.35
	120410	10 \pm 0.5		120410S	40	\pm 0.40	0.90		
	120420	20 \pm 1.0		120420S	4	0.50			
	120430	30 \pm 1.0				0.50			
1 - 12.4	1211	10 \pm 0.5	\pm 0.30	1211S	40	\pm 0.40	1.10	15	1.35
0.3 - 12.4	100312406	6 \pm 1.1	\pm 1.20				2.00	10	1.4
	100312410	10 \pm 1.0	\pm 1.20				1.35	15	1.35
	100312416	16 \pm 1.2	\pm 1.00				1.2		1.3
	100312420	20 \pm 1.0	\pm 1.20				1.0		1.20
	100312430	30 \pm 0.7	\pm 1.20				1.00		1.35
1 - 16	101016010	10 \pm 0.5 dB	\pm 0.35				1.00		16
101016020	20 \pm 1.0 dB				0.65				
12.4 - 18	181206	06 \pm 0.5	\pm 0.30				1.90	15	1.35
	181210	10 \pm 0.5		181210S	40	\pm 0.40	1.00		
	181220	20 \pm 1.0		181220S	4	0.60			
	181230	30 \pm 1.0							



Directional Couplers

Directional Detectors

Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Model	Low Level Sensitivity ($\mu\text{V}/\mu\text{W}$)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
2 - 18	1815	6 ± 1.0	± 0.35	1815S	100	± 0.70	1.90	16	1.30
	1822	10 ± 0.5		1822S	40		1.10		
	1818	16 ± 0.5		1818S	10		0.75		
	1824	20 ± 1.0		1824S	4		0.70		
	1825	30 ± 1.0	± 0.5				0.9	12	1.5
1 - 18	18106	6 ± 0.8	± 0.8				2.5	12	1.6
	1821	10 ± 0.5	$\pm 0.30, 1-12.4 \text{ GHz}$ $\pm 0.40, 1-18 \text{ GHz}$	1821S	40	± 0.70	1.30	16	1.35
	1820	16 ± 0.5		1820S	10		0.90		
	180120	20 ± 1.0			0.95				
	18130	30 ± 1.0	± 1.20				1.00	14	1.35
0.3 - 18	100318006	6 ± 1.1	± 1.20					2.25	10
	100318010	10 ± 1.0				1.60	12	1.40	
	100318020	20 ± 1.0				1.4	15	1.40	
	100318030	30 ± 0.7				1.40	12	1.40	
0.5 - 18.5	1856	6 ± 1.0	± 1.0				2.5	12	1.35
	1851	10 ± 1.0	± 0.70	1851S	40	± 1.0	1.50		
	1850	16 ± 1.0		1850S	10		1.10		
	1852	20 ± 1.0		1852S	4		1.10		
4 - 20	104020006	6 ± 0.5		± 0.30	204020006		100	± 0.60	1.90
	104020010	10 ± 0.5	204020010		40	1.00			
	104020020	20 ± 1.0	204020020		4	0.60			
	104020030	30 ± 1.0	± 0.70			0.60			
2 - 20	102020006	06 ± 1.0	± 0.80				2.5	12	1.6
	102020010	10 ± 0.5	± 0.30	202020010	40	± 0.60	1.30	16	1.35
	102020016	16 ± 0.5		202020016	10		1.00		1.35
	102020020	20 ± 1.0		202020020	4		0.90		1.35
	102020030	30 ± 1.0	± 0.5					0.90	12
1.7 - 20	2618	16 ± 1.0	$\pm 0.40, 1.7-18 \text{ GHz}$ $\pm 0.55, 1.7-20 \text{ GHz}$	2618S	10		$\pm 0.70, 1.7-18 \text{ GHz}$ $\pm 0.90, 18-20 \text{ GHz}$	$0.80, 1.7-18 \text{ GHz}$ $1.00, 18-20 \text{ GHz}$	$15, 1.7-18 \text{ GHz}$ $13, 18-20 \text{ GHz}$
1 - 20	101020006	6 ± 0.8	± 0.80				2.5	12	1.6
	101020010	10 ± 0.5	± 0.35	201020010	40	± 0.70	1.40	16	1.35
	101020016	16 ± 0.5		201020016	10		1.10		
	101020020	20 ± 1.0		201020020	4		1.00		
	101020030	30 ± 1.0		± 1.2					
0.5 - 20	152006	6 ± 1.0	± 1.0					2.1	12
	152010	10 ± 1.0	± 0.80	152010S	40	± 0.80	1.65	15	1.35
	152013	13 ± 1.0		152013S	20		1.40		
	152020	20 ± 1.0					1.20		

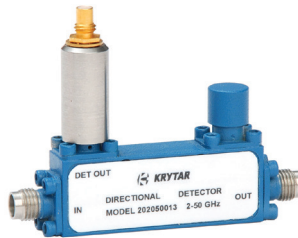
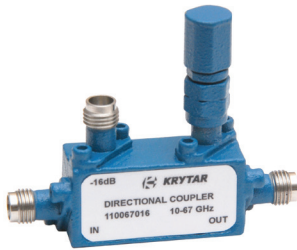


Directional Couplers

Directional Detectors

Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Model	Low Level Sensitivity ($\mu\text{V}/\mu\text{W}$)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
18 - 26.5	262206	6 ± 1.0	± 0.30	262210S	40	± 0.40	1.60	13	1.40
	262210	10 ± 0.5					1.30	14	
	262213	13 ± 1.0	1.20	13					
	262220	20 ± 1.0	0.80	14					
	262230	30 ± 1.0	± 0.35						
6 - 26.5	106026506	06 ± 1.0	± 0.50	206026510	40	± 0.80	1.60	14	1.45
	106026510	10 ± 0.5	± 0.30				1.30	13	1.40
	106026513	13 ± 1.0	± 1.00	206026520	4		1.20	14	1.45
	106026520	20 ± 1.0	± 0.30				0.80		
	106026530	30 ± 1.0	± 0.50	206026530	0.40		± 1.00	0.70	
1.7 - 26.5	2611	10 ± 1.0	± 0.60	2611S	40	± 1.20	1.50	14	1.45
	2616	16 ± 1.0		2616S	10		1.20		
	2621	20 ± 1.0	± 0.60				1.2		
1 - 26.5	2606	6 ± 1.0	± 0.50	2610S	40	± 1.00	1.60	13	1.50
	2610	10 ± 1.0					1.20	14	1.40
	2620	20 ± 1.0							
0.5 - 26.5	152606	6 ± 1.0	± 1.25	152613S	20	± 1.30	2.6	13	1.6
	152610	10 ± 1.0	± 1.00				1.50		1.45
	152613	13 ± 1.0					1.40		
	152616	16 ± 1.0	± 1.20				1.35		
	152620	20 ± 1.0	± 1.50						
26.5 - 40	264006 264006K	6 ± 0.7	± 0.65	264010S	40	± 0.50	2.40	10	1.80
	264010 264010K	10 ± 0.7	± 0.40				1.70	12	1.70
	264020 264020K	20 ± 1.0					1.30		
	264030 264030K	30 ± 1.0	± 0.5						
18 - 40	184010 184010K	10 ± 0.7	± 0.40	184010S	40	± 0.50	1.70	12	1.70
	184020 184020K	20 ± 1.0		184020S	4		1.30		
	184030 184030K	30 ± 2.0	± 0.70						



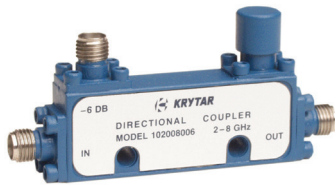


Directional Couplers

Directional Detectors

Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Model	Low Level Sensitivity (µV/µW)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR	
10 - 40	110040010 110040010K	10 ± 0.7	± 0.40	210040010 210040010K	40	± 0.90	1.70	10	1.70	
	110040020 110040020K	20 ± 1.0		210040020 210040020K	4		1.30			
	106040006 106040006K	6 ± 1.5					2.2			
6 - 40	106040010 106040010K	10 ± 0.80	± 0.60				1.8	12	1.60	
	106040020 106040020K	20 ± 1.0	± 0.5				1.2			
	106040030 106040030K	30 ± 1.8	± 1.6							
	102040006 102040006K	6 ± 1.52	± 1.00				3.50			
2 - 40	102040010 102040010K	10 ± 1.0	± 0.40, 2-20GHz ± 0.70, 2-40GHz	202040013 202040013K	20	± 1.40	1.20, 2-20GHz 1.80, 20-40GHz	11	1.70	
	102040013 102040013K	13 ± 1.0		202040016 202040016K	10	± 0.70, 2-20GHz ± 1.40, 2-40GHz	1.00, 2-20GHz 1.70, 20-40GHz			
	102040016 102040016K	16 ± 1.0				0.90, 2-20GHz 1.60, 20-40GHz				
	102040020 102040020K	20 ± 1.0								
	102040030 102040030K	30 ± 1.0		± 1.0			0.80, 2-20GHz 1.50, 20-40GHz			1.50, 2-20 GHz 1.70, 20-40 GHz
	101040006 101040006K	6 ± 1.0		± 1.52						2.50, 1-20GHz 3.50, 20-40GHz
1 - 40	101040010 101040010K	10 ± 1.0	± 1.20	201040010 201040010K	40	± 1.70	2.00	10	1.7	
	101040013 101040013K	13 ± 1.0		201040013 201040013K	20		1.80			
	101040020 101040020K	20 ± 1.0					0.85, 1-20GHz 1.50, 20-40GHz			
	101040030 101040030K	30 ± 1.8		± 1.5, 1-20 GHz ± 1.5, 20-40 GHz			1.5			
	110046006 110046006K	6 ± 0.7		± 0.70						2.40
10 - 46	110046010 110046010K	10 ± 0.7	± 0.50				1.90	10	1.80	
	110046020 110046020K	20 ± 1.0				1.50				
	110046030 110046030K	30 ± 2.0		± 2.0		1.5				
	102046013	13 ± 1.0		± 0.60, 2-26.5GHz ± 0.80, 2-46GHz		1.80	13, 2-26.5GHz 10, 26.5-46GHz			1.50, 2-26.5GHz 1.80, 26.5-46GHz
26.5 - 50	265006	6 ± 1.0	± 0.50				2.4	10	1.80	
	265010	10 ± 0.7				1.90				
	265020	20 ± 1.0								
	265030	30 ± 2.0		± 2.0		1.50				

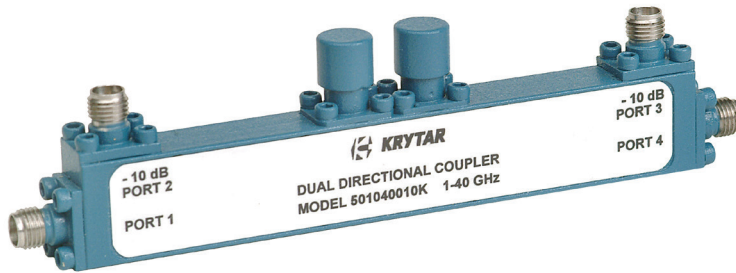
Up to 110 GHz



Directional Couplers

Directional Detectors

Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Model	Low Level Sensitivity ($\mu\text{V}/\mu\text{W}$)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
18 - 50	195006	6 \pm 1.0	\pm 1.0				2.4	8	1.80
	195010	10 \pm 0.7	\pm 0.50				1.90	10	
	195020	20 \pm 1.0					1.50		
	195030	30 \pm 2.0	\pm 2.0						
10 - 50	110050006	6 \pm 0.7	\pm 0.50				2.40	10	1.80
	110050010	10 \pm 0.7					1.90		
	110050020	20 \pm 1.0	\pm 2.0				1.50		1.9
	110050030	30 \pm 2.0							
2 - 50	102050006	6 \pm 2.0	\pm 2.0				2.80	10	1.80
	102050010	10 \pm 1.0	\pm 0.80	202050010	40	\pm 3.30	2.00		
	102050013	13 \pm 1.0		202050013	20		1.80		
	102050016	16 \pm 1.0		202050016	10		1.70		
	102050020	20 \pm 1.2	\pm 1.25						
1 - 50	101050013	13 \pm 1.0	\pm 1.00				1.60, 1-26.5GHz 1.90, 26.5-50GHz	10	1.50, 1-26.5GHz 1.80, 26.5-50GHz
	101050016	16 \pm 1.5	\pm 1.5				2.5	10	1.5
	101050020	20 \pm 1.5	\pm 2.0						1.75
	101050030	30 \pm 2.2	\pm 2.2				2		1.7
1 - 65	101065013	13 \pm 1.5	\pm 1.00, 1-30 GHz \pm 2.00, 30-65 GHz				3.5	7.2	12, 1-30 GHz 1.9, 30-65 GHz
	101065016	16 \pm 2.0	\pm 1.2, 1-32 GHz \pm 1.5, 32-65 GHz				2.8	10.0	1.6
	101065020	20 \pm 2.0 dB to 50 GHz 20 \pm 4 dB to 65 GHz	\pm 2 to 50 GHz \pm 4.0 to 65 GHz				3.00	8	1.9
	101065030	30 \pm 3.0	\pm 1.25, 1-30 GHz \pm 3.20, 30-65 GHz				2.5	10.0	1.7
10 - 67	110067016	16 \pm 1.1	\pm 2.00				1.95	7.25	2.00
	110067006	6 \pm 2.5	\pm 0.75 to 50 GHz \pm 1.50 to 67 GHz				4.40	7.25	1.8 to 50 GHz 2.3 to 67 GHz
50 - 110	1500110010	10 \pm 1.8	\pm 1.8				5.5	7	2.5
10 - 110	1100110010	10 \pm 1.8	\pm 1.25, 10 - 90 GHz \pm 1.80, 90 - 110 GHz				5.5	10, 10 - 55 GHz 7.55 - 110 GHz	1.8, 10-50GHz 2.5, 50-110GHz



DUAL DIRECTIONAL COUPLERS

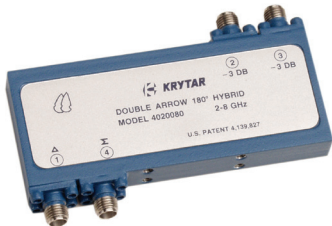
Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
1 - 4	501004020	20 ± 1.0	± 0.5	0.70	20	1.2
0.5 - 8	500508010	10 ± 1.0	± 0.60	2.30	15	1.35
2 - 8	502008020	20 ± 0.5	± 0.5	0.85	15	1.25
2 - 18	501822	10 ± 1.0	± 0.50	2.00	15	1.35
	501818	16 ± 1.0		1.40		
0.5 - 20	500520010	10 ± 1.0	± 0.85	3.0	12	1.40
	500520020	20 ± 1.2		2.0		
4 - 20	504020006	6 ± 0.8	± 0.50	4.0	12	1.35
	504020010	10 ± 1.25	± 0.80	2.00	15	1.40
	504020020	20 ± 1.0		1.25		
	504020030	30 ± 1.0		1.00	12	
2 - 20	502020030	30 ± 1.0	± 0.80	1.30	14 to 12.4 GHz 12 to 20 GHz	1.40
1 - 20	501820	10 ± 1.0	± 0.50	2.80	15	1.40
1 - 40	501040010	10 ± 1.5	± 2.00	2.20, 20 GHz	15	1.50 to 20 GHz
	501040010K			2.80, 40 GHz		1.80 to 40 GHz
	501040020	20 ± 1.0	± 0.15	2.0	10	1.8
	501040020K					
10 - 46	510046010	10 ± 1.8	± 1.0	2.8	10	1.80
26.5 - 50	526550010			3.0		
10 - 50	510050010					
1 - 50	501050013	13 ± 1.0	± 1.5	4.4	10	1.7
1 - 65	501065013	13 ± 2.0	± 1.5 dB, 1-50 GHz ± 2.5 dB, 1-65 GHz	6.5	10 dB, 1-50 GHz 7 dB, 50-65 GHz	1.8

3 dB 90° HYBRID COUPLERS



Frequency Range (GHz)	Model	Amplitude Imbalance (db)	Phase Imbalance (Degrees)	Isolation (dB Min)	Maximum VSWR	Insertion Loss (dB Max)
1 - 4	3010040	± 0.60	± 6	17	1.30	1.00
0.5 - 4.0	3005040	± 0.70	± 5	18	1.35	1.20
0.5 - 7	3005070	± 0.40	± 5	19	1.30	1.30
2 - 8	3020080	± 0.35	± 3	19	1.25	0.65
1 - 12.4	1230	± 0.40	± 7	20	1.30	1.40
2 - 18	1830	± 0.40	± 7	17	1.35	1.40
1.7 - 18	3017180	± 1.50	± 10	15	1.75	3.20
1.4 - 18	3014180	± 1.00	± 10	12	1.70	2.70
1 - 18	1831	± 0.50	± 10	17	1.35	2.00
6 - 20	3060200	± 0.40	± 5	14	1.45	1.00
10 - 26.5	3100265K	± 0.55	± 7	15	1.61	1.30
1.7 - 26.5	3017265	± 1.50	± 10	14	1.85	3.40
1.4 - 26.5	3014265	± 1.20	± 12	12	1.80	3.00
1.4 - 32	3014320	± 1.55	± 12	12	1.90	3.50
5 - 36	3050360K	± 1.50	± 15	11	1.80	2.80
1.7 - 36	3017360K	± 1.70	± 12	12	1.85	4.35
1 - 40	3010400	± 3.0	± 20	15	1.8	5.0
10 - 40	3100400	± 0.70	± 10	12	1.80	2.00
	3100400K					
4 - 44	3040440	± 1.2	± 12	13 dB (4-30GHz) 8 dB (30-44 GHz)	1.9	3.2

3 dB 180° HYBRID COUPLERS

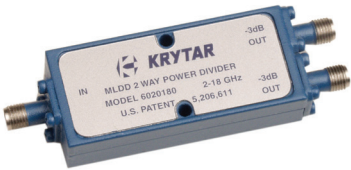


Frequency Range (GHz)	Model	Amplitude Imbalance (db)	Phase Imbalance (Degrees)	Isolation (dB Min)	Maximum VSWR	Insertion Loss (dB Max)
0.5 - 4.0	4005040	±0.70	±15	14	1.35	2.00
0.5 - 7.0	4005070	±0.60	±10	16	1.40	2.80
2 - 8	4020080	±0.30	±8	18	1.40	1.10
4 - 12.4	4040124	±0.40	±8	17	1.60	0.90
1 - 12.4	4010124	±0.40	±10	17	1.60	2.10
2 - 18	4020180	±0.60	±14	15	1.70	2.00
1 - 18	4010180	±0.60	±12	15	1.70	2.90
6 - 20	4060200	±0.60	±10	15	1.70	1.20
6 - 26.5	4060265	±0.70	±12	14	1.70	1.60
1 - 26.5	4010265	±1.00 to 20 GHz ±1.50 to 26.5 GHz	±16	15	1.80 to 20 GHz 1.95 to 26.5 GHz	3.0 to 20 GHz 3.6 to 26.5 GHz
10 - 40	4100400	±1.00	±12	12	1.80	1.70
	4100400K					

2-WAY POWER DIVIDERS

* WILKINSON TYPE

Frequency Range (GHz)	Model	Band Segments	Maximum VSWR		Insertion Loss (dB)	Isolation (dB)	Amplitude Tracking (dB)	Phase Tracking (Degrees)
			In	Out				
2 - 8	6020080*	2 - 8	1.45		0.8	19.5	0.25	5
2 - 18	6020180	2 - 18	1.45		1.10	19	0.3	6
1 - 18	6010180	1 - 18	1.45		1.20	19	0.3	6
0.5 - 18	6005180	0.5 - 18	1.45		1.50	19	0.3	6
2 - 26.5	6020265	2 - 18	1.45		1.10	19	0.3	6
		18 - 26.5	1.60		1.40	18	0.5	10
1 - 26.5	6010265	1 - 18	1.45		1.20	19	0.3	6
		18 - 26.5	1.60		1.60	21	0.5	10
0.5 - 26.5	6005265	0.5 - 18	1.45		1.50	19	0.3	6
		18 - 26.5	1.60		1.90	19	0.5	10
26.5 - 40	6265400 6265400K	26.5-40	1.90		1.90	14.5	0.38	8
		18-40	1.90	2.10	2.10	14.0	0.5	8
1.90			1.90	14.5				
10 - 40	6100400 6100400K	10-40	1.90	2.10	2.10	14.0	0.5	8
			1.90		1.90	14.5		
6 - 40	6060400 6060400K	6-40	1.90	2.10	2.10	14.0	0.5	8
			1.90		1.90	14.5		
3 - 40	6030400 6030400K	3-40	1.90	2.10	2.10	14.0	0.5	8
			1.90		1.90	14.5		
1-40	6010400 6010400K	1.20	1.65	1.50	2.5	14	0.6	7
		20-40	1.85	1.70				14
3 - 45	6030450	3 - 36	2.3	1.80	2.10	14	0.5	10
		36 - 45		2.50				2.80



MLDD 4-WAY POWER DIVIDERS

Frequency Range (GHz)	Model	Maximum Input VSWR	Maximum Output VSWR	Insertion Loss (dB)	Isolation (dB)	Amplitude Tracking (dB)	Phase Tracking (Degrees)
2 - 18	7020180	1.70	1.50	2.00	16	0.6	10
1 - 18	7010180	1.70	1.50	3.00	16	0.8	10
0.5 - 18	7005180	1.70	1.50	4.00	16	1.0	10
2 - 26.5	7020265	1.90	1.70	2.30	16	1.0	15
1 - 26.5	7010265	1.90	1.70	3.30	16	1.0	15
0.5 - 26.5	7005265	1.80	1.70	4.30	16	1.2	15
3 - 40	7030400	1.90 to 32 GHz	1.70 to 32 GHz	3.00 to 32 GHz	13	0.5	11 to 32 GHz
	7030400K	2.50 to 40 GHz	2.3 to 40 GHz	3.60 to 40 GHz			15 to 40 GHz
1 - 40	7010400	1.80	1.80	6.5	11	1.5	22
	7010400K						



MLDD 8-WAY POWER DIVIDERS

Frequency Range (GHz)	Model	Maximum Input VSWR	Maximum Output VSWR	Insertion Loss (dB)	Isolation (dB)	Amplitude Tracking (dB)	Phase Tracking (Degrees)
2 - 18	8020180	2.00	1.75	5.5	17	1.0	15
1 - 18	8010180	2.10	1.75	5.5	17	1.0	15

ZERO BIAS SCHOTTKY DETECTORS



Frequency Range	Model	Frequency Response	Maximum VSWR	Input Connector	Output Connector Options
10 MHz - 18.5 GHz	109	± 0.3 dB to 12.4 GHz ± 0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.30 to 15 GHz 1.40 to 18.5 GHz	N Male	(A) SMA Female or (B) BNC Female or (S) SMC Jack
10 MHz - 20 GHz	201	± 0.5 dB	1.35	3.5 mm Male	
10 MHz - 26.5 GHz	202	± 0.5 dB to 20 GHz ± 0.8 dB to 26.5 GHz	1.35 to 20 GHz 1.50 to 26.5 GHz	3.5 mm Male	
10 MHz - 40 GHz	203 or 203K	± 0.5 dB to 20 GHz ± 0.8 dB to 26.5 GHz ± 1.5 dB to 40 GHz	1.35 to 20 GHz 1.50 to 26.5 GHz 2.00 to 40 GHz	2.4 mm Male or 2.92 mm Male	
100 MHz - 18.5 GHz	209	± 0.3 dB to 12.4 GHz ± 0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.30 to 15 GHz 1.40 to 18.5 GHz	N Male	
100 MHz - 20 GHz	301	± 0.5 dB	1.35	3.5 mm Male	
100 MHz - 26.5 GHz	302	± 0.5 dB to 20 GHz ± 0.8 dB to 26.5 GHz	1.35 to 20 GHz 1.50 to 26.5 GHz	3.5 mm Male	
100 MHz - 40 GHz	303 or 303K	± 0.5 dB to 20 GHz ± 0.8 dB to 26.5 GHz ± 1.5 dB to 40 GHz	1.35 to 20 GHz 1.50 to 26.5 GHz 2.00 to 40 GHz	2.4 mm Male or 2.92 mm Male	



PLANAR DOPED BARRIER DETECTORS



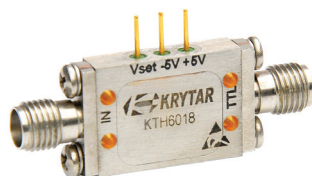
Frequency Range	Model	Frequency Response	Maximum VSWR	Input Connector	Output Connector Options
10 MHz - 18.5 GHz	110	± 0.3 dB to 12.4 GHz ± 0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.30 to 15 GHz 1.40 to 18.5 GHz	N Male	(A) SMA Female or (B) BNC Female or (S) SMC Jack
10 MHz - 20 GHz	601	± 0.3 dB	1.30	3.5 mm Male	
10 MHz - 26.5 GHz	602	± 0.3 dB to 20 GHz ± 0.6 dB to 26.5 GHz	1.30 to 20 GHz 1.40 to 26.5 GHz	3.5 mm Male	
10 MHz - 40 GHz	603 or 603K	± 0.3 dB to 20 GHz ± 0.6 dB to 26.5 GHz ± 1.0 dB to 40 GHz	1.30 to 20 GHz 1.40 to 26.5 GHz 1.70 to 40 GHz	2.4 mm Male or 2.92 mm Male	
100 MHz - 18.5 GHz	210	± 0.3 dB to 12.4 GHz ± 0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.30 to 15 GHz 1.40 to 18.5 GHz	N Male	
100 MHz - 20 GHz	701	± 0.3 dB	1.30	3.5 mm Male	
100 MHz - 26.5 GHz	702	± 0.3 dB to 20 GHz ± 0.6 dB to 26.5 GHz	1.30 to 20 GHz 1.40 to 26.5 GHz	3.5 mm Male	
100 MHz - 40 GHz	703 or 703K	± 0.3 dB to 20 GHz ± 0.6 dB to 26.5 GHz ± 1.0 dB to 40 GHz	1.30 to 20 GHz 1.40 to 26.5 GHz 1.70 to 40 GHz	2.4 mm Male or 2.92 mm Male	

COAXIAL PLANAR TUNNEL DIODE DETECTORS



Model	Frequency (GHz)	Voltage Sensitivity $\mu\text{V}/\mu\text{W}$ Typical	Tss (-dBm) Typ	VSWR (Typical)	Flatness ($\pm\text{dB}$ Max)	Video Capacitance (pF)
KDT0120	0.1 - 2.0	0.80	51	2.00	0.75	470
KDT0140	0.1 - 4.0	0.80	51	2.20	0.75	470
KDT0112	0.1 - 12.4	0.80	50	2.50	1.00	470
KDT8018	8.0 - 18.0	0.70	47	3.00	0.75	10
KDT6018	6.0 - 18.0	0.70	47	3.00	0.75	10
KDT2018	2.0 - 18.0	0.50	47	3.50	1.00	20
KDT1018	1.0 - 18.0	0.40	47	3.50	1.00	50
KDT0518	0.5 - 18.5	0.50	50	3.50	1.00	100

COAXIAL THRESHOLD DETECTORS



Model	Frequency (GHz)	VSWR (Typical)	Threshold Variation ($\pm\text{dB}$, Max.)
KTH0120	0.1 - 2.0	2.00	0.75
KTH0140	0.1 - 4.0	2.60	0.75
KTH0112	0.1 - 12.4	2.70	1.00
KTH8018	8.0 - 18.0	3.00	0.75
KTH6018	6.0 - 18.0	3.00	0.75
KTH2018	2.0 - 18.0	3.00	1.00
KTH0518	0.5 - 18.5	3.50	1.00

COAXIAL PIN - PIN DIODE LIMITERS



Model	Frequency (GHz)	Insertion Loss (dB)	VSWR (Typical)	Minimum Leakage Power (dBm)	
				Peak	CW
KPL0520	0.5 - 2.0	0.50	1.40	+23.0	+20.0
KPL0140	0.5 - 4.0	0.60	1.40	+23.0	+20.0
KPL8018	8.0 - 18.0	2.20	2.00	+20.0	+19.0
KPL6018	6.0 - 18.0	2.20	2.00	+20.0	+19.0
KPL2018	2.0 - 18.0	2.50	2.20	+23.0	+19.0



COAXIAL PIN - SCHOTTKY DIODE LIMITERS

Model	Frequency (GHz)	Insertion Loss (dB)	VSWR (Typical)	Minimum Leakage Power (dBm)	
				Peak	CW
KSL0520	0.5 - 2.0	0.60	1.50	+20.0	+16.0
KSL0140	0.5 - 4.0	0.80	1.50	+20.0	+16.0
KSL8018	8.0 - 18.0	2.50	2.20	+19.0	+15.0
KSL6018	6.0 - 18.0	2.50	2.20	+19.0	+15.0
KSL2018	2.0 - 18.0	2.50	2.20	+20.0	+16.0



COAXIAL TERMINATIONS

Frequency Range	Model	Maximum VSWR	Connector	Dimensions
DC - 20 GHz	T1M	1.05	3.5 mm Male	0.80" x 0.36" dia.
DC - 20 GHz	T1F	1.07	3.5 mm Female	0.73" x 0.36" dia.
DC - 26.5 GHz	T2M	1.09	3.5 mm Male	0.80" x 0.36" dia.
DC - 26.5 GHz	T2F	1.11	3.5 mm Female	0.73" x 0.36" dia.
DC - 40 GHz	T3M	1.20	2.4 mm Male	0.84" x 0.36" dia.
DC - 40 GHz	T3MK	1.20	2.92 mm Male	0.85" x 0.36" dia.
DC - 40 GHz	T3FK	1.20	2.92 mm Female	0.80" x 0.36" dia.
DC - 50 GHz	T4M	1.25	2.4 mm Male	0.84" x 0.36" dia.
DC - 67 GHz	T5M	1.20, DC-40GHz 1.43, 40-67GHz	2.4 mm Male	0.84" x 0.36" dia.
DC - 67 GHz	T5MV	1.2, DC-40 GHz 1.43, 40-67 GHz	1.85 mm Male	0.82" x 0.36" dia.



COAXIAL ADAPTORS

Frequency (GHz)	Adapter Type	Type Connector	Connector Configuration	VSWR (Max)	Model Number
DC-27 GHz	In Series	SMA	Female to Male	1.10 to 18 GHz 1.15 18 to 27 GHz	1030
DC-27 GHz	In Series	SMA	Male to Male	1.10 DC to 18 GHz 1.15 18 to 27 GHz	1031
DC-27 GHz	In Series	SMA	Female to Female	1.10 DC to 18 GHz 1.15 18 to 27 GHz	1032
DC-40 GHz	In Series	2.92mm	Female to Male	1.10 DC to 27 GHz 1.15 27.0 to 40 GHz	2030
DC-40 GHz	In Series	2.92mm	Male to Male	1.10 DC to 27.0 GHz 1.15 27.0 to 40 GHz	2031
DC-40 GHz	In Series	2.92mm	Female to Female	1.10 DC to 27 GHz 1.15 27 to 40GHz	2032
DC-50 GHz	In Series	2.4mm	Female to Male	1.10 DC to 27 GHz 1.15 27 to 40 GHz 1.20 40 to 50 GHz	3030
DC-50 GHz	In Series	2.4mm	Male to Male	1.10 DC to 27 GHz 1.15 27 to 40 GHz 1.20 40 to 50 GHz	3031
DC-50 GHz	In Series	2.4mm	Female to Female	1.10 DC to 27 GHz 1.15 27 to 40 GHz 1.20 40 to 50 GHz	3032
DC-67 GHz	In Series	1.85mm	Female to Male	1.10 DC to 18 GHz 1.15 18-40 GHz 1.18 40-50 GHz 1.25 50-67 GHz	4030
DC-67 GHz	In Series	1.85mm	Male to Male	1.10 DC to 18 GHz 1.15 18-40 GHz 1.18 40-50 GHz 1.25 50-67 GHz	4031
DC-67 GHz	In Series	1.85mm	Female to Female	1.10 DC to 18 GHz 1.15 18-40 GHz 1.18 40-50 GHz 1.25 50-67 GHz	4032
DC-40 GHz	Between Series	2.92mm to 2.4mm	Female to Female	1.10 DC to 18 GHz 1.15 18 to 40 GHz	5010
DC-40 GHz	Between Series	2.92mm to 2.4mm	Female to Male	1.10 DC to 18 GHz 1.15 18 to 40 GHz	5020
DC-40 GHz	Between Series	2.92mm to 2.4mm	Male to Female	1.10 DC to 18 GHz 1.15 18 to 40 GHz	5030
DC-40 GHz	Between Series	2.92mm to 2.4mm	Male to Male	1.10 DC to 18 GHz 1.15 18 to 40 GHz	5040

NOTES

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**Ultra-Broadband High Performance
Components
DC - 110 GHz**



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NOTE: The Krytar website has complete data sheets with detailed electrical specifications as well as dimensions on each model number of each product listed in this short form catalog. Comprehensive applications ideas are also included. Please visit the website for any detailed information required or call Krytar toll free at 1-877-734-5999. A complete catalog can be downloaded from the website.

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