



**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

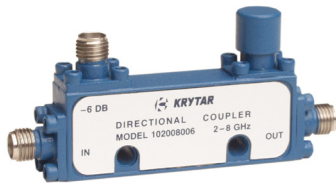
Directional Detectors

Pin-Schottky Limiters

Pin-Pin Limiters

KRYTAR®
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SINCE 1975

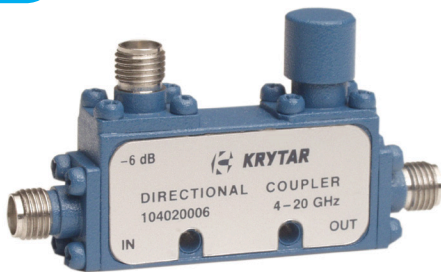


Directional Couplers

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 ± 0.5	± 0.50				1.30	20	1.20
	101004010	10 ± 0.8					1.00		
	101004020	20 ± 0.5					0.80		
0.4 - 4	100404010	10 ± 0.5	± 0.50				1.10	16	1.20
	100404020	20 ± 0.8					0.75	20	
2 - 8	102008006	6 ± 0.5	± 0.25	202008006	100	± 0.30	1.60	20	1.20
	102008010	10 ± 0.5		202008010	40		0.75		
	102008020	20 ± 1.0		202008020	4		0.35		
0.5 - 8	158006	6 ± 1.1	± 0.60	158006S	100	± 0.80	1.70	15	1.35
	158010	10 ± 1.0		158010S	40		1.30		
	158016	16 ± 1.0		158016S	10	± 0.60	0.85		
	158020	20 ± 1.0		158020S	4		0.80		
0.3 - 8	100308006	6 ± 1.1	± 1.20				2.0	10	1.4
	100308010	10 ± 1.0	± 1.20				1.30	20	1.18
	100308016	16 ± 1.2	± 1.00				1.00		1.15
	100308020	20 ± 1.0	± 1.20				0.85		
	100308030	30 ± 0.7	± 1.20				0.85		
2 - 8.6	102008616	16 ± 1.0	± 0.25				0.50	20	1.30
0.6-12	100612020	20 ± 1.0	± 1.20				1.00	15	1.2
7 - 12.4	120706	06 ± 0.5	± 0.30				1.80	15	1.35
	120710	10 ± 0.5		120710S	40	± 0.40	0.90		
	120720	20 ± 1.0		120720S	4		0.50		
	120730	30 ± 1.0					0.50		
4 - 12.4	120406	06 ± 0.5	± 0.30				1.80	15	1.35
	120410	10 ± 0.5		120410S	40	± 0.40	0.90		
	120420	20 ± 1.0		120420S	4		0.50		
	120430	30 ± 1.0					0.50		
1 - 12.4	1211	10 ± 0.5	± 0.30	1211S	40	± 0.40	1.10	15	1.35
0.3 - 12.4	100312406	6 ± 1.1	± 1.20				2.00	10	1.4
	100312410	10 ± 1.0	± 1.20				1.35	15	1.35
	100312416	16 ± 1.2	± 1.00				1.2		1.3
	100312420	20 ± 1.0	± 1.20				1.0		1.20
	100312430	30 ± 0.7	± 1.20				1.00		1.35
1 - 16	101016010	10 ± 0.5 dB	± 0.35				1.00	16	1.3
	101016020	20 ± 1.0 dB					0.65		
12.4 - 18	181206	06 ± 0.5	± 0.30				1.90	15	1.35
	181210	10 ± 0.5		181210S	40	± 0.40	1.00		
	181220	20 ± 1.0		181220S	4		0.60		
	181230	30 ± 1.0	± 0.70				0.60		





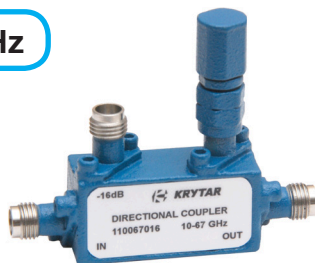
Directional Couplers

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	± 0.30 , 1-12.4 GHz ± 0.40 , 1-18 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	1.40
	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	15	1.35
	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					12	1.5
1.7 - 20	2618	16 ± 1.0	± 0.40 , 1.7-18 GHz ± 0.55 , 1.7-20 GHz	2618S	10	± 0.70 , 1.7-18 GHz ± 0.90 , 18-20 GHz	0.80 , 1.7-18 GHz 1.00, 18-20 GHz	15 , 1.7-18 GHz 13, 18-20 GHz	1.35 , 1.7-18 GHz 1.45, 18-20 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				1.00	14	
0.5 - 20	152006	6 ± 1.0	± 1.0				2.1	12	1.35
	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		



Up to 40 GHz



Directional Couplers

Directional Detectors

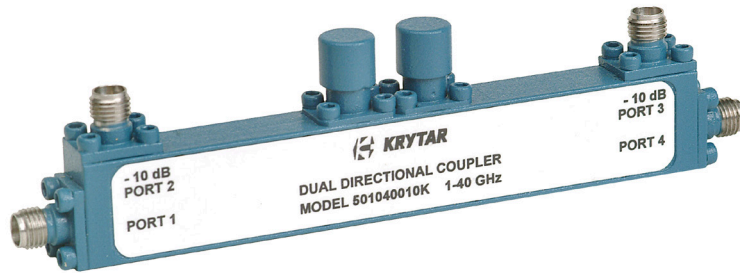
Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)		Model	Low Level Sensitivity (μV/μW)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
18 - 26.5	262206	6 ± 1.0	± 0.30					1.60	13	1.40
	262210	10 ± 0.5		262210S	40	± 0.40	1.30	14		
	262220	20 ± 1.0		262220S	4		0.80			
	262230	30 ± 1.0	± 0.35							
6 - 26.5	106026506	06 ± 1.0	± 0.50					1.60	14	1.45
	106026510	10 ± 0.5	± 0.30		206026510	40	± 0.80	1.30	13	1.40
	106026520	20 ± 1.0		206026520	4	0.80		14		
	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	14	1.45
1 - 26.5	2606	6 ± 1.0	± 0.50					1.60	13	1.50
	2610	10 ± 1.0		2610S	40	± 1.00		14	1.40	
	2620	20 ± 1.0		2620S	4		1.20			
0.5 - 26.5	152606	6 ± 1.0	± 1.25					2.6	13	1.6
	152610	10 ± 1.0	± 1.00					1.50		1.45
	152613	13 ± 1.0		152613S	20	± 1.30				
	152616	16 ± 1.0	± 1.20				1.40			
	152620	20 ± 1.0	± 1.50				1.35			
6 - 40	106040010	10 ± 0.80	± 0.60					1.8	12	1.60
	106040020	20 ± 1.0	± 0.5					1.2		
	106040030	30 ± 1.8	± 1.6							
26.5 - 40	264006	6 ± 0.7	± 0.65					2.40	10	1.80
	264010	10 ± 0.7	± 0.40		264010S	40	± 0.50	1.70	12	1.70
	264020	20 ± 1.0		264020S	4	1.30				
18 - 40	184010	10 ± 0.7	± 0.40		184010S	40	± 0.50	1.70	12	1.70
	184020	20 ± 1.0		184020S	4	1.30				
10 - 40	110040010	10 ± 0.7	± 0.40		210040010	40	± 0.90	1.70	10	1.70
	110040010K			210040010K						
	110040020	20 ± 1.0		210040020	4	1.30				
	110040020K			210040020K						
2 - 40	102040006	6 ± 1.52	± 1.00					3.50	11	1.70
	102040010	10 ± 1.0						1.20, 2-20GHz 1.80, 20-40GHz		
	102040013	13 ± 1.0	± 0.40, 2-20GHz ± 0.70, 2-40GHz	202040013	20	± 1.40	1.00, 2-20GHz 1.70, 20-40GHz			
	102040016	16 ± 1.0		202040016	10	± 0.70, 2-20GHz ± 1.40, 2-40GHz	0.90, 2-20GHz 1.60, 20-40GHz			
	102040020	20 ± 1.0					0.80, 2-20GHz 1.50, 20-40GHz			
	102040020K									
1 - 40	101040006	6 ± 1.0	± 1.52					2.50, 1-20GHz 3.50, 20-40GHz	10	1.7
	101040010	10 ± 1.0	± 1.20	201040010	40	± 1.70	2.00			
	101040013	13 ± 1.0		201040013	20		1.80			
	101040020	20 ± 1.0					0.85, 1-20GHz 1.50, 20-40GHz			
	101040020K									
	101040030	30 ± 1.8	± 1.5, 1-20 GHz ± 1.5, 20-40 GHz					1.5		



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 - 46	110046006	6 ± 0.7	± 0.70					2.40	10	1.80
	110046010	10 ± 0.7	1.90							
	110046020	20 ± 1.0	± 0.05					1.50		
2 - 46	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	265010	10 ± 0.7	± 0.50					1.90	10	1.80
	265020	20 ± 1.0						1.50		
	265006	6 ± 1.0						2.4		
18 - 50	195010	10 ± 0.7	± 0.50					1.90	10	1.80
	195020	20 ± 1.0						1.50		
10 - 50	110050006	6 ± 0.7	± 0.50					2.40	10	1.80
	110050010	10 ± 0.7						1.90		
	110050020	20 ± 1.0						1.50		
2 - 50	102050010	10 ± 1.0	± 0.80		202050010	40	± 3.30	2.00	10	1.80
	102050013	13 ± 1.0			202050013	20		1.80		
	102050016	16 ± 1.0			202050016	10		1.70		
	102050020	20 ± 1.2	± 1.25							
1 - 50	101050013	13 ± 1.0	± 1.00				1.60,1-26.5GHz 2.90, 26.5-50GHz	10	1.50, 1-26.5GHz 1.80,26.5-50GHz	
	101050020	20± 1.5	± 2.0				2.5	10	1.75	
1 - 65	101065013	13 ± 1.5	± 1.00,1-30 GHz ± 2.00,30-65 GHz				3.5	7.2	1.9	
	101065020	20± 2.0 dB to 50 GHz 20 ±4 dB to 65 GHz	± 2 to 50 GHz ±4.0 to 65 GHz				3.00	8	1.9	
10 - 67	110067016	16 ± 1.1	± 2.00				1.95	7.25	2.00	
	110067006	6 ± 2.5	± 0.75 to 50 GHz ± 1.50 to 67 GHz				4.40	7.25	1.8 to 50 GHz 2.3 to 67 GHz	
50 - 110	1500110010	10 ± 1.8	± 1.8				5.5	7	2.5	
10 - 110	1100110010	10 ± 1.8	±1.25, 10 - 90 GHz ±1.80, 90 -110 GHz					10,10 - 55 GHz 7,55 - 110 GHz	1.8, 10-50GHz 2.5, 50-110GHz	



DUAL DIRECTIONAL COUPLERS

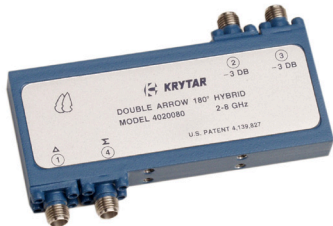
Frequency Range (GHz)	Model	Nominal Coupling (dB)	Frequency Sensitivity (dB)	Insertion Loss (dB Max)	Directivity (dB Min)	Max VSWR
1 - 4	501004020	20 ± 1.0	± 0.5	0.70	20	1.2
0.5 - 8	500508010	10 ± 1.0	± 0.60	2.30	15	1.35
2 - 8	502008020	20 ± 0.5	± 0.5	0.85	15	1.25
2 - 18	501822	10 ± 1.0	± 0.50	2.00	15	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	504020010	10 ± 1.25	± 0.80	2.00	15	1.40
	504020020	20 ± 1.0	± 0.80	1.25	15	1.40
	504020030	30 ± 1.0	± 0.80	1.00	12	1.40
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 to 20 GHz	15	1.50 to 20 GHz
	501040010K			2.80 to 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					

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

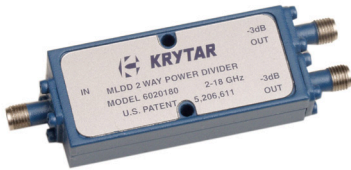


Frequency Range (GHz)	Model	Amplitude Imbalance (db)	Phase Imbalance (Degrees)	Isolation (dB Min)	Maximum VSWR	Insertion Loss (dB Max)
0.5 - 4.0	4005040	±0.70	±15	14	1.35	2.00
0.5 - 7.0	4005070	±0.60	±10	16	1.40	2.80
2 - 8	4020080	±0.30	±8	18	1.40	1.10
4 - 12.4	4040124	±0.40	±8	17	1.60	0.90
1 - 12.4	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	26.5-40	1.90		1.90	14.5	0.38	8
	6265400K							
18 - 40	6180400	18-40	1.90	2.10	2.10	14.0	0.5	8
	6180400K		1.90		1.90	14.5		
10 - 40	6100400	10-40	1.90	2.10	2.10	14.0	0.5	8
	6100400K		1.90		1.90	14.5		
6 - 40	6060400	6-40	1.90	2.10	2.10	14.0	0.5	8
	6060400K		1.90		1.90	14.5		
3 - 40	6030400	3-40	1.90	2.10	2.10	14.0	0.5	8
	6030400K		1.90		1.90	14.5		
1-40	6010400	1.20	1.65	1.50	2.5	14	0.6	7
	6010400K	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		0.7	14



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



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)
1 - 18	8010180	2.10	1.75	5.5	17	1.0	15
2 - 18	8020180	2.00	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
KDT0518	0.5 - 18.5	0.50	50	3.50	1.00	100
KDT1018	1.0 - 18.0	0.40	47	3.50	1.00	50
KDT2018	2.0 - 18.0	0.50	47	3.50	1.00	20
KDT6018	6.0 - 18.0	0.70	47	3.00	0.75	10
KDT8018	8.0 - 18.0	0.70	47	3.00	0.75	10

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
KTH0518	0.5 - 18.5	3.50	1.00
KTH2018	2.0 - 18.0	3.00	1.00
KTH6018	6.0 - 18.0	3.00	0.75
KTH8018	8.0 - 18.0	3.00	0.75

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
KPL2018	2.0 - 18.0	2.50	2.20	+23.0	+19.0
KPL6018	6.0 - 18.0	2.20	2.00	+20.0	+19.0
KPL8018	8.0 - 18.0	2.20	2.00	+20.0	+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
KSL2018	2.0 - 18.0	2.50	2.20	+20.0	+16.0
KSL6018	6.0 - 18.0	2.50	2.20	+19.0	+15.0
KSL8018	8.0 - 18.0	2.50	2.20	+19.0	+15.0

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.



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



**Ultra-Broadband High Performance
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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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