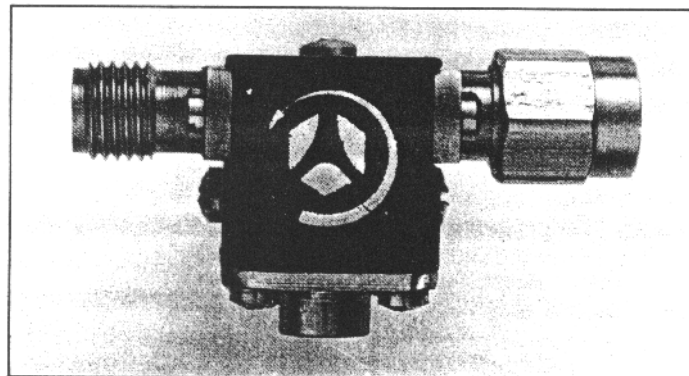


dispositifs coaxiaux pour applications particulières coaxial devices for specific applications

Circulateurs 3 voies et isolateurs coaxiaux 3 port coaxial circulators and isolators

TYPE TYPE	BANDE DE FRÉQUENCE FREQUENCY RANGE	CARACTÉRISTIQUES À SPECIFICATIONS AT T = 25°C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉRA- TURES TEMPERA- TURE RANGE	CIRCULATEUR CIRCULATOR		CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS L x W x H	POIDS WEIGHT	SCHEMA OUTLINE DRWG
		DÉCOU- PLAGE ISOLATION	PERTES INSERTION LOSS	R.O.S. V.S.W.R.	DÉCOU- PLAGE ISOLATION	PERTES INSERTION LOSS	R.O.S. V.S.W.R.		PUISSANCE MOYENNE AVERAGE POWER	PUISSANCE CRÊTE PEAK POWER				
	GHz	dB min.	dB max.	max.	dB min.	dB max.	max.	°C	W max.	KW max.		mm approx.	kg approx.	
E 3032	2 - 2.3	20	0.3	1.2	19	0.4	1.3	-10 +60	10	0.1	SMA	17x18.5x13.6	0.03	T ₈
E 3029	2.1- 2.5	20	0.3	1.25	18	0.4	1.3	-10 +60	15	0.1	SMA	44.3x44.5x15.2	0.15	T ₇
E 3033	2.2- 2.5	20	0.3	1.2	19	0.4	1.3	-10 +60	10	0.1	SMA	17x18.5x13.6	0.03	T ₈
E 3030	2.3- 2.7	20	0.3	1.25	18	0.4	1.3	-10 +60	15	0.1	SMA	44.3x44.5x15.2	0.15	T ₇
30532	2.3- 2.5	25	0.4	1.2	20	0.4	1.25	0 +60	150	5	N	50x51x68.2	0.8	T ₂₁
F 30	3.7- 4.2	30	0.2	1.12	25	0.2	1.15	0 +70	15		SMA	27.3x29.7x15.8	0.05	T ₂₂
TBC 541	4.4- 5	30	0.2	1.10	23	0.3	1.15	-25 +75	10	0.1	SMA	27.3x29.7x15.8	0.05	T ₂₂
TBC 34	4.8- 5.2	20	0.2	1.25	18	0.3	1.3	-40 +70	10	0.1	SMA	18x22x16.5	0.04	T ₂₃
TBC 35	5.4- 5.9	20	0.2	1.25	18	0.3	1.3	-40 +70	10	0.1	SMA	18x22x16.5	0.04	T ₂₃
TBC 41	5.4- 5.9	25	0.4	1.2	20	0.5	1.25	-40 +70	20	0.1	N	27.5x35.1x27.6	0.15	T ₂₄
TBC 621	5.9- 6.4	23	0.25	1.15	23	0.25	1.15	0 +60	10	0.1	SMA	16x22.7x18	0.03	T ₁₀
TBC 631	6.4- 7.1	23	0.25	1.15	20	0.25	1.25	0 +60	10	0.1	SMA	16x22.7x18	0.03	T ₁₀
TBC 661	7.1- 7.8	23	0.4	1.15	20	0.5	1.25	-30 +70	10	0.1	SMA	16x22.7x18	0.03	T ₁₀
TBX 30	7.8- 8.7	20	0.3	1.25	18	0.3	1.3	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
TBX 32	8.7- 9.6	20	0.3	1.25	18	0.3	1.3	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
TBX 325	9.2- 9.5	22	0.3	1.20	20	0.3	1.3	-40 +80	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
F 30604	10 -12	25	0.4	1.15	20	0.4	1.25	-40+100	10	0.1	SMA	18.4x22.5x18.6	0.04	T ₁₃
F 30605	10.2-12.4	25	0.3	1.15	20	0.4	1.25	-40+100	10	0.1	SMA	18.4x22.5x18.6	0.04	T ₁₃
TBX 36	10.6-11.7	20	0.3	1.25	18	0.3	1.3	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
TBX 38	11.3-12.4	20	0.3	1.25	18	0.3	1.3	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
TBK 32	12 -13.25	23	0.5	1.15	20	0.5	1.25	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
F 30606	12.5-13.5	20	0.5	1.25	20	0.5	1.25	-40+100	10	0.1	SMA	18.4x22.5x18.6	0.04	T ₁₃
TBK 36	13.1-13.7	23	0.5	1.15	20	0.5	1.25	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
TBK 38	14 -14.5	23	0.5	1.15	20	0.5	1.25	-40 +70	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
BJ 3020	14 -18	18	0.6	1.3	18	0.6	1.3	-40 +85	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
TBK 401	15.5-16	28	0.4	1.15	25	0.5	1.3	-40 +80	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂
BJ 3021	16 -18	20	0.6	1.25	18	0.6	1.3	-40 +85	10	0.1	SMA	12.7x12.7x12.7	0.015	T ₁₂

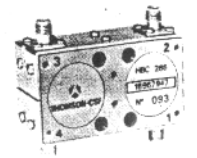
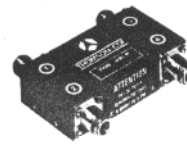
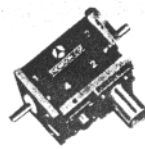


dispositifs coaxiaux coaxial devices

circulateurs coaxiaux, 3 voies 3 port coaxial circulators

TYPE TYPE	BANDE DE FRÉQUENCE FREQUENCY RANGE	BANDE PASSANTE BANDWIDTH	CARACTÉRISTIQUES A SPECIFICATIONS AT			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉ- RATURES TEMPÉ- RATURE RANGE	PUISS- SANCE MOYENNE MEAN POWER	PUISS- SANCE CRÊTE PEAK POWER	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS	POIDS WEIGHT
			T = 25°C											
			DECOUPLAGE ISOLATION	Pertes INSERTION LOSS	R.O.S. V.S.W.R.	DECOUPLAGE ISOLATION	Pertes INSERTION LOSS	R.O.S. V.S.W.R.						
GHz	MHz	dB	dB		dB	dB	°C	W	kW	mm	kg			
TBL 14	1.68 - 1.78	T	23	0.3	1.25	20	0.5	1.25	-10 + 60	50		N	53.4 x 54 x 28	0.3
F 30567	1.7 - 2.1	T	25	0.3	1.12	18	0.5	1.30	-30 + 80	10	0.1	SMA	49 x 50 x 15	0.14
TBS 221	1.7 - 2.1	T	22	0.3	1.20	20	0.3	1.25	-25 + 55			SMA	63.5 x 63.6 x 25.6	0.5
TBS 22	1.7 - 2.3	T	22	0.3	1.20	20	0.4	1.25	-30 + 70	20		N	63.5 x 63.6 x 28.6	0.5
YBS 20	1.7 - 2.7	T	20	0.4	1.25	18	0.5	1.30	0 + 55	20		N	Ø 88 x 35	0.7
TBS 60	1.8 - 2.1	T	20	0.4	1.20	17	0.5	1.35	-20 + 60			SMA	27.6 x 26.6 x 13.7	0.05
TBS 255	1.8 - 2.1	T	25	0.3	1.15	20	0.3	1.25	-20 + 60			SMA	44.3 x 44.5 x 15.2	0.05
F 30568	2 - 2.3	T	25	0.4	1.12	18	0.5	1.30	-40 + 80	10	0.1	SMA	45 x 44 x 15	0.09
TBS 41	2 - 3	T	20	0.3	1.25	18	0.5	1.30	0 + 60	20		N	56.9 x 61.3 x 27.5	0.40
F 30531	2 - 2.7	T	20	0.4	1.25	18	0.5	1.30	-10 + 60	10	0.1	SMA	45 x 44 x 15	0.09
TBS 51	2.05 - 2.85	T	25	0.3	1.15	18	0.5	1.30	-40 + 70			SMA	56.3 x 57.6 x 22.3	0.25
TBS 25	2.1 - 2.3	T	25	0.3	1.15	20	0.3	1.20	-20 + 60			SMA	44.3 x 44.5 x 15.2	0.15
TBS 511	2.1 - 2.7	T	22	0.3	1.20	20	0.3	1.25	-25 + 55			SMA	63.5 x 63.6 x 25.6	0.20
TBS 61	2.15 - 2.5	T	20	0.4	1.20	17	0.5	1.35	-20 + 60			SMA	27.6 x 26.6 x 13.7	0.20
F 30569	2.3 - 2.7	T	25	0.4	1.12	17	0.6	1.40	-40 + 80	10	0.1	SMA	45 x 44 x 15	0.09
TBS 52	2.3 - 4.3	T	16	0.5	1.40	14	0.7	1.50	0 + 70			SMA	56.3 x 57.6 x 22.3	0.25
TMS 15	2.35 - 2.55	T	25	0.35	1.15	20	0.5	1.20	0 + 50	220	7.5	N	56.9 x 61.3 x 31.6	0.4
TBS 26	2.4 - 2.6	T	20	0.3	1.25	16	0.5	1.40	-20 + 60			SMA	30.7 x 32.4 x 17.2	0.07
TMS 13	2.4 - 2.6	T	25	0.4	1.15	20	0.5	1.25	0 + 60	150	3	N	56.9 x 61.3 x 27.5	0.4
YBS 13	2.5 - 3.5	T	22	0.3	1.20	20	0.3	1.25	0 + 60	20		N	Ø 76.2 x 35.2	0.65
R 2916 B	2.6 - 3.4	T	23	0.3	1.15	20	0.35	1.25	-10 + 50	10	0.1	SMA	42 x 40 x 16	0.08
TBS 13	2.9 - 3.1	T	20	0.3	1.25	16	0.5	1.40	-20 + 60			SMA	30.7 x 32.4 x 17.2	0.09
TBS 411	2.9 - 3.2	T	30	0.4	1.15	25	0.5	1.20	0 + 50	20		N	56.9 x 61.3 x 27.5	0.4
TBC 22	3 - 3.5	T	26	0.3	1.10	20	0.5	1.20	-40 + 70			SMA	43.7 x 44.1 x 19.2	0.15
TBC 21	3.2 - 3.7	T	30	0.3	1.10	20	0.4	1.20	-55 + 70			SMA	43.7 x 44.1 x 19.2	0.15
TBC 23	3.5 - 4	T	25	0.25	1.15	20	0.3	1.25	-20 + 70			SMA	32.4 x 32.7 x 15.8	0.055
TBC 281	3.7 - 4.2	T	30	0.2	1.10	25	0.2	1.10	0 + 70			SMA	25.4 x 27.7 x 17.5	0.05
TBC 29	3.7 - 4.2	T	20	0.2	1.25	18	0.3	1.30	-40 + 70			SMA	24.6 x 22 x 17	0.05
TBC 282	3.7 - 4.2	T	27	0.3	1.10	25	0.3	1.15	+15 + 45		20	N	25.4 x 35.1 x 27.4	0.05
R 2943 B	3.7 - 4.2	T	30	0.25	1.10	23	0.3	1.15	-40 + 85	10	0.1	SMA	29 x 26 x 16	0.06
AR 2988	3.7 - 4.2	T	25	0.25	1.15	20	0.3	1.20	-20 + 60	10	0.1	SMA	28 x 25 x 18	0.06
TBC 33	3.7 - 3.9	T	23	0.2	1.15	18	0.3	1.30	-40 + 70			SMA	24.6 x 22 x 17	0.045
R 2943 A	4 - 4.6	T	30	0.25	1.10	23	0.3	1.20	-40 + 85	10	0.1	SMA	29 x 26 x 16	0.06
TBC 54	4 - 5	T	22	0.3	1.15	20	0.3	1.20	-30 + 70			SMA	27.3 x 29.7 x 15.8	0.05
F 30536	4 - 5	600	30	0.26	1.10	25	0.3	1.2	-40 + 80	10	0.1	SMA	29 x 26 x 18	0.05
F 30546	4 - 5	T	23	0.3	1.20	20	0.40	1.25	-10 + 60	10	0.1	SMA	28 x 25.5 x 16.5	0.05
TBC 32	4.2 - 4.4	T	25	0.3	1.15	23	0.3	1.20	-20 + 70			SMA	25.4 x 27.7 x 17.5	0.05
TBC 51	4.3 - 6.9	T	20	0.3	1.25	18	0.4	1.30	0 + 70			SMA	25.4 x 27.7 x 17.5	0.05
TBC 541	4.4 - 5	T	30	0.2	1.10	23	0.3	1.15	-25 + 75			SMA	27.3 x 29.7 x 15.8	0.05
TBC 34	4.8 - 5.2	T	20	0.2	1.25	18	0.3	1.30	-40 + 70			SMA	18 x 22 x 16.5	0.04
AR 2920 B	5 - 10.5	1500	30	0.3	1.10	23	0.40	1.20	-30 + 100	5	0.03	SMA	30 x 29 x 20	0.07
R 2989 B	5 - 7.5	1200	30	0.3	1.10	25	0.40	1.20	-50 + 90	5	0.1	SMA	22 x 20 x 13	0.070
TBC 35	5.3 - 5.9	T	20	0.2	1.25	18	0.3	1.30	-40 + 70			SMA	18 x 22 x 16.5	0.04
TBC 60	5.4 - 5.9	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.04
TBC 41	5.4 - 5.9	T	25	0.4	1.20	20	0.5	1.25	-40 + 70	20		N	27.5 x 35.1 x 27.6	0.15
R 2989 A	5.9 - 7.5	T	25	0.3	1.15	20	0.40	1.20	-10 + 60	10	0.1	SMA	22 x 20 x 13	0.070
TBC 621	5.9 - 6.4	T	23	0.25	1.15	23	0.25	1.15	0 + 60			SMA	16 x 22.7 x 18	0.03
TBC 612	5.9 - 6.4	T	20	0.25	1.25	18	0.3	1.30	-40 + 70			SMA	16 x 22.7 x 18	0.03
TBC 625	5.9 - 6.4	T	25	0.12	1.10	23	0.12	1.15	0 + 50			SMA	16 x 22.7 x 18	0.03
TBC 623	5.9 - 6.4	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.03
TBC 62	5.9 - 6.5	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBC 631	6.4 - 7.1	T	23	0.25	1.15	20	0.25	1.20	0 + 60			SMA	16 x 22.7 x 18	0.03
TBC 643	6.4 - 7.1	T	20	0.3	1.30	17	0.3	1.40	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.03
TBC 64	6.4 - 7.1	T	19	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBC 635	6.4 - 7.1	T	25	0.12	1.10	23	0.12	1.15	0 + 50			SMA	16 x 22.7 x 18	0.030
TBC 651	7.1 - 7.8	T	28	0.2	1.08	25	0.3	1.15	0 + 55			SMA	16 x 22.7 x 18	0.030
TBC 661	7.1 - 7.8	T	23	0.4	1.15	20	0.5	1.20	-30 + 70			SMA	16 x 22.7 x 18	0.030
TBC 663	7.1 - 7.8	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.030
TBC 66	7.1 - 7.8	T	19	0.3	1.30	17	0.3	1.40	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 313	7.55 - 8.35	T	20	0.3	1.25	18	0.3	1.30	-30 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 312	7.6 - 8.4	T	20	0.3	1.25	18	0.3	1.30	-30 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 314	7.65 - 8.45	T	20	0.3	1.25	18	0.35	1.30	-30 + 70			SMA	12.9 x 17.2 x 12.7	0.030

dispositifs coaxiaux coaxial devices



HBC 632

HBL 11

HBC 286

circulateurs coaxiaux, 4 voies 4 port coaxial circulators

TYPE TYPE	BANDE DE FRÉQUENCE FREQUENCY RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C					CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE					GAMME DE TEMPÉ- RATURES TEMPÉ- RATURE RANGE °C	PUI- SANCE MOYENNE MEAN POWER W	PUI- SANCE CRÊTE PEAK POWER kW	CONNEC- TEUR CONNEC- TOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB		PERTES INSERTION LOSS dB		R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB		PERTES INSERTION LOSS dB		R.O.S V.S.W.R						
			2-1 4-3	3-2 1-4	1-2 3-4	2-3 4-1		2-1 4-3	3-2 1-4	1-2 3-4	2-3 4-1							
HBU 110	0.79 - 0.89	T	23	45	0.4	0.8	1.15	20	40	0.5	0.8	1.25	0 + 50			SMA	80 x 35 x 19	0.29
HBU 111	0.89 - 0.96	T	23	45	0.4	0.8	1.15	20	40	0.5	0.8	1.25	0 + 50			SMA	80 x 35 x 19	0.29
AR 2974A	0.9 - 1.2	100	20	40	0.6	1	1.25	20	40	0.6	1.1	1.25	- 40 + 70	10		SMA	25 x 40 x 85	0.35
R 2981	0.96 - 1.215	T	20	40	0.35	0.7	1.25	20	40	0.35	0.7	1.25	- 30 + 70	100	10	SMA	34 x 110 x 190	1.9
HBL 04	1 - 1.1	T	21	43	0.3	0.6	1.20	20	40	0.4	0.7	1.25	0 + 60	50	1.5	N	53.4 x 106.5 x 28	0.6
HBL 11	1.2 - 1.3	T	21	45	0.3	0.6	1.15	20	40	0.3	0.6	1.25	- 30 + 55	50	1.5	N	53.4 x 106.5 x 28	0.6
HBL 12	1.25 - 1.35	T	25	50	0.4	0.8	1.25	20	40	0.5	1	1.25	- 50 + 85	50		N	53.4 x 106.5 x 28	0.6
HBL 10	1.2 - 1.4	T	21	45	0.2	0.4	1.20	18	35	0.4	0.8	1.30	0 + 60	50		N	70 x 132 x 28	1
F 30500	1.2 - 1.8	100	20	40	0.3	0.5	1.20	20	40	0.35	0.65	1.20	0 + 50	50	0.5	SMA	26 x 61 x 108	0.4
AR 2928	1.425 - 1.575	T	20	40	0.3	0.6	1.20	25	40	0.35	0.7	1.20	0 + 50	80	0.5	SMA	30 x 65 x 110	0.7
HBL 54	1.65 - 1.75	T	21	43	0.3	0.6	1.20	20	40	0.3	0.6	1.25	- 20 + 70	50	0.2	SMA	53.4 x 106.5 x 28	0.6
HBS 601	1.7 - 1.9	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HBS 602	1.9 - 2.1	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20				SMA	55.5 x 25.6 x 13.5	0.08
HBS 603	2.1 - 2.3	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HBS 604	2.3 - 2.5	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HMS 14	2.4 - 2.6	T	24	45	0.3	0.6	1.15	20	40	0.3	0.6	1.25	0 + 60	150	3	N	57 x 109.2 x 28.2	0.6
HBS 30	2.5 - 3.5	T	21	42	0.3	0.5	1.20	20	40	0.3	0.6	1.25	0 + 60	10		N	57 x 109.2 x 28.2	0.6
R 2987	2.7 - 3.3	T	20	40	0.3	0.5	1.25	20	40	0.35	0.6	1.25	- 20 + 70	20	0.5	SMA	24 x 85 x 125	0.6
F 30548	3.7 - 4.2	T	25	40	0.3	0.5	1.15	20	40	0.4	0.8	1.20	0 + 50	20	0.5	SMA	16 x 29 x 70	0.15
AR 2915D	3.7 - 5.2	T	17	35	0.5	1	1.40	17	35	0.5	1	1.40	- 40 + 85	10	0.5	SMA	15.5 x 30 x 57	0.09
HBC 27	3.7 - 5.2	T	22	40	0.3	0.6	1.20	20	40	0.3	0.6	1.25	0 + 40	5		SMA	28.5 x 52 x 17.5	0.09
HBC 28	3.8 - 4.2	T	25	45	0.3	0.6	1.15	20	40	0.3	0.6	1.25	- 20 + 70	5		SMA	27.2 x 57.3 x 15	0.09
AR 2930	4.7 - 5.3	T	25	40	0.3	0.6	1.10	25	40	0.35	0.7	1.10	0 + 50	10	0.5	SMA	16 x 30 x 62	0.14
HBC 34	4.8 - 5.2	T	22	40	0.4	0.8	1.20	20	40	0.4	0.8	1.25	- 40 + 90	5	1.5	SMA	17 x 42.9 x 17	0.07
HBC 61	5.3 - 5.6	T	20	40	0.3	0.5	1.20	16	35	0.4	0.6	1.40	- 20 + 70	5		SMA	13.7 x 25.4 x 12.7	0.05
HBC 60	5.4 - 5.9	T	20	40	0.3	0.5	1.20	16	35	0.4	0.6	1.40	- 20 + 70	5		SMA	13.7 x 25.4 x 12.7	0.05
HBC 602	5.4 - 5.9	T	16	35	0.4	0.6	1.40	16	35	0.4	0.6	1.40	- 20 + 70	20		SMA	12.7 x 32.1 x 12.7	0.029
HBC 604	5.4 - 5.9	T	16	35	0.4	0.6	1.40	16	35	0.4	0.6	1.40	- 40 + 70	20		SMA	12.7 x 32.1 x 12.7	0.029
AR 2909	5.9 - 7.5	T	25	40	0.35	0.7	1.20	20	40	0.4	0.8	1.20	0 + 50	10	0.1	SMA	20 x 30 x 62	0.14
HBC 631	6.4 - 7.1	T	25	50	0.25	0.4	1.10	23	45	0.25	0.4	1.15	0 + 55			SMA	22 x 41.2 x 12.7	0.07
AR 2916	7 - 11	T	20	40	0.5	0.9	1.25	20	40	0.6	1.1	1.25	- 30 + 70	10	0.1	SMA	20 x 30 x 68	0.13
HBC 651	7.1 - 7.9	T	23	45	0.25	0.4	1.15	23	45	0.3	0.5	1.15	0 + 55			SMA	22 x 41.2 x 12.7	0.07
HBX 30	7.6 - 8.4	T						18	35	0.3	0.5	1.30	- 40 + 70	5		SMA	13.7 x 25.4 x 12.7	0.02
AR 2916B	8.2 - 12.4	T	20	40	0.5	0.9	1.25	20	40	0.6	1.1	1.25	- 30 + 70	10	0.03	SMA	20 x 30 x 68	0.13
HBX 32	8.7 - 9.6	T	22	43	0.3	0.5	1.20	16	35	0.4	0.5	1.45	- 40 + 70	5		SMA	13.7 x 25.4 x 12.7	0.02
HBX 33	9.2 - 9.5	T	22	43	0.3	0.5	1.20	20	40	0.3	0.5	1.25	- 40 + 70	5	0.5	SMA	13.7 x 25.4 x 12.7	0.02
F 30507	13.7 - 14.7	T	16	40	0.55	1	1.25	20	40	0.6	1.1	1.25	- 40 + 70	10	0.1	SMA	13 x 18 x 33	0.1
HBK 401	15.5 - 16	T	23	48	0.4	0.7	1.20	22	45	0.5	0.8	1.30	- 40 + 100			SMA	12.7 x 25.4 x 12.7	0.02
HBK 40	15.5 - 16.5	T	22	43	0.3	0.6	1.15	20	40	0.3	0.6	1.20	- 40 + 100	3		SMA	12.7 x 25.4 x 12.7	0.02
HBK 41	15.8 - 16.3	T	23	48	0.4	0.7	1.20	20	40	0.5	0.8	1.30	- 40 + 100			SMA	12.7 x 25.4 x 12.7	0.02
AR 2960	16 - 18	800	20	40	0.4	0.8	1.20	20	40	0.5	0.9	1.20	- 40 + 70	10	0.1	SMA	13 x 20 x 34	0.09

circulateurs coaxiaux, 4 voies à faibles pertes (amplificateurs paramétriques) 4 port, low insertion loss, coaxial circulators (parametric amplifiers)

TYPE TYPE	BANDE DE FRÉQUENCE FREQUENCY RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C					GAMME DE TEMPÉRATURES TEMPERATURE RANGE °C	CONNEC- TEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB		PERTES INSERTION LOSS dB		R.O.S V.S.W.R				
			2-1 4-3	3-2 1-4	1-2 3-4	2-3 4-1					
F 30563	1.67 - 1.75	T	30	45	0.12	0.30	1.10	- 10 + 60	SMA	160 x 65 x 27	0.7
F 30570	2.2 - 2.3	T	30	45	0.12	0.25	1.10	- 10 + 60	SMA	122 x 52 x 27	0.55
F 32205	2.9 - 3.1	T	30	45	0.12	0.25	1.10	- 10 + 60	SMA	105 x 46 x 27	0.45
HBC 288	3.6 - 4.3	T	25	40	0.12	0.25	1.10	- 20 ± 5	SMA	31.8 x 60 x 21	0.14
HBC 286	3.7 - 4.2	T	33	50	0.1	0.25	1.05	+ 20 ± 5	SMA	31.8 x 60 x 21	0.14
HBC 287	3.7 - 4.2	T	33	50	0.1	0.25	1.05	- 20 ± 5	SMA	31.8 x 60 x 21	0.14
F 30587	3.7 - 4.2	T	30	45	0.12	0.25	1.10	- 10 + 60	SMA	67 x 28 x 16	0.18
F 32206	10 - 10.5	T	28	40	0.25	0.5	1.15	- 10 + 60	SMA	44 x 18 x 13	0.06
HBX 485	10.85 - 11.8	T	35	50	0.12	0.25	1.05	+ 25 ± 5	SMA	17.2 x 42.2 x 19.1	0.1
HBX 486	10.85 - 11.8	T	25	40	0.12	0.25	1.10	+ 25 ± 5	SMA	17.2 x 42.2 x 19.1	0.1

dispositifs coaxiaux coaxial devices

circulateurs coaxiaux, 3 voies 3 port coaxial circulators

TYPE TYPE	BANDE DE FREQUENCE FREQUENCY RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTERISTIQUES A SPECIFICATIONS AT			CARACTERISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPERATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRETE PEAK POWER kW	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			T = 25 °C	DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. V.S.W.R.	DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB						
F 30600	0.06 - 0.1	2.5	20	1	1.25				-10 + 60	30		SMA/N	30 x 65 x 65	0.36
F 30588	0.1 - 0.25	6	20	0.6	1.25				-10 + 60	30		SMA/N	25 x 52 x 52	0.250
YBU 63	0.1 - 0.15	3.5%				20	1		-10 + 60			BNC	Ø 70 x 33.5	
TBU 62	0.136	1.5%				10	1		-20 + 70			BNC	41 x 53 x 22	
YBU 64	0.15 - 0.3	3.5%				20	1		-10 + 60			BNC	Ø 70 x 33.5	
YBA 45	0.17 - 0.20	T	21	0.3	1.25	20	0.35	1.25	0 + 50	200		N	69.8 x Ø 86	1.8
YBA 46	0.20 - 0.23	T	21	0.3	1.25	20	0.35	1.25	0 + 50	200		N	69.8 x Ø 86	1.8
YBU 64-1	0.225 - 0.4	3.5%				20	0.8		-10 + 60			BNC	Ø 62 x 37	
R 2988 A	0.25 - 0.35	25	18	0.8	1.4				-10 + 60	25		SMA	25 x 45 x 42	0.115
AR 2922	0.35 - 0.45	35	18	0.8	1.4				-10 + 60	25		SMA	25 x 45 x 42	0.115
TMU 06	0.4 - 0.6	T	16	0.8	1.5	15	1	1.6	-40 + 80			SMA	102 x 84 x 42	0.91
YBU 66	0.4 - 0.6	3.5%				20	1		-10 + 60			BNC	Ø 62 x 37	
TBU 45	0.406 - 0.430	T	20	0.6	1.20	18	0.8	1.25	-20 + 80			SMA	30 x 40 x 13.7	0.075
F 30576	0.406 - 0.470	T	20	0.5	1.25				-20 + 70	100	5	N	Ø 80 x 58	1.3
YBU 16	0.43 - 0.47	T	22	0.3	1.20	20	0.5	1.20	0 + 50	100		N	56 x Ø 79.5	0.75
YBU 06	0.43 - 0.47	T	22	0.4	1.20	20	0.5	1.25	0 + 50	350	2	N	97 x 113 x 42	2
TBU 46	0.44 - 0.47	T	20	0.6	1.20	18	0.8	1.25	-20 + 80			SMA	30 x 40 x 13.7	0.075
AR 2923	0.45 - 0.60	45	18	0.8	1.4					25		N	25 x 30 x 30	0.085
YBU 17	0.47 - 0.57	T	22	0.3	1.20	22	0.4	1.20	0 + 50	100		N	56 x Ø 79.5	0.75
YBU 07	0.47 - 0.57	T	22	0.4	1.20	20	0.5	1.25	0 + 50	350	2	N	97 x 113 x 42	2
F 30577	0.47 - 0.60	T	20	0.5	1.25				-20 + 70	100	5	N	Ø 80 x 58	1.3
TBU 47	0.54 - 0.64	T	15	0.6	1.5	15	1	1.5	-10 + 60			SMA	30 x 30.5 x 79.5	0.065
YBU 18	0.57 - 0.7	T	22	0.3	1.20	22	0.4	1.20	0 + 50	100		N	56 x Ø 79.5	0.75
YBU 08	0.57 - 0.7	T	22	0.4	1.20	20	0.5	1.25	0 + 50	350	2	N	97 x 113 x 42	2
F 30578	0.59 - 0.72	T	20	0.5	1.25				-20 + 70	100	5	N	Ø 80 x 58	1.3
AR 2927	0.6 - 0.8	60	18	0.8	1.4					25		N	25 x 30 x 30	0.085
YBU 67	0.6 - 0.9	3.5%				20	0.6		-10 + 60			BNC	Ø 62 x 22	
TMU 09	0.600 - 0.960	T	14	1	1.5	13	1.2	1.6	-40 + 80			SMA	80 x 68 x 38.5	0.7
TBU 481	0.635 - 0.660	T	20	0.5	1.25	18	0.6	1.30	-20 + 70			SMA	30 x 30.5 x 13.9	0.05
TBU 48	0.640 - 0.710	T	20	0.6	1.30	18	0.6	1.35	-10 + 70			SMA	30 x 30.5 x 13.9	0.05
F 30543	0.70 - 0.80	75	25	0.4	1.15	20	0.5	1.25	-30 + 70	10	1	SMA	38 x 35 x 19.3	0.16
YBU 19	0.70 - 0.86	T	22	0.3	1.20	22	0.4	1.20	0 + 50	100		N	56 x Ø 79.5	0.75
YBU 09	0.70 - 0.86	T	22	0.04	1.20	20	0.5	1.25	0 + 50	350	2	N	97 x 113 x 42	2
F 30579	0.71 - 0.86	T	20	0.5	1.25				-20 + 70	100	5	N	Ø 80 x 58	1.3
F 30558	0.80 - 0.95	T	23	0.5	1.20	20	0.6	1.25	-30 + 70	10	1	SMA	30 x 30.5 x 19	0.10
TBL 30	0.80 - 1.20	10%	20	0.4	1.25	18	0.5	1.30	-30 + 70			SMA	37 x 35.5 x 19	0.15
YBU 11	0.815 - 0.960	T	25	0.5	1.15	20	0.5	1.20	0 + 60	150		N	53 x Ø 94.5	1.2
F 30522	0.85 - 1.1	T	20	0.5	1.25				-20 + 70	100	5	N	Ø 80 x 58	1.3
TBL 20	0.85 - 1.20	3%	20	0.5	1.25	18	0.6	1.30	0 + 70			SMA	28.6 x 29 x 19.7	0.08
TBU 31	0.86 - 0.96	T	22	0.4	1.20	20	0.5	1.25	0 + 70			SMA	53.4 x 54 x 28	0.3
YBU 68	0.9 - 1.2	3.5%				20	0.4		-10 + 60			BNC	Ø 62 x 22	
TBU 30	0.93 - 1.04	T	22	0.4	1.20	18	0.5	1.30	-40 + 70			SMA	53.4 x 54 x 28	0.3
TBL 03	0.93 - 1.04	T	22	0.4	1.20	18	0.5	1.30	-40 + 70	50	1.5	N	53.4 x 54 x 28	0.3
F 30590	0.960 - 1.215	T	20	0.4	1.25	18	0.5	1.30	-40 + 80	100	2	SMA	53 x 48 x 25.5	0.27
TBL 53	0.960 - 1.215	T	20	0.5	1.25	18	0.5	1.35	-10 + 70			SMA	53.4 x 54 x 28	0.3
F 30581	1 - 1.1	T	25	0.4	1.15	20	0.5	1.25	-40 + 70	25	2	SMA	30 x 30.5 x 19	0.10
AR 2972	1 - 1.5	200	25	0.4	1.15	20	0.5	1.25	-40 + 85	10	1	SMA	40 x 40 x 25	0.18
TBL 04	1 - 1.1	3%	23	0.3	1.20	20	0.4	1.25	0 + 60	50	1.5	N	53.4 x 54 x 28	0.3
TBL 21	1.2 - 1.4	3%	20	0.4	1.25	18	0.5	1.30	0 + 70			SMA	28.6 x 29 x 24.7	0.1
TBL 10	1.2 - 1.4	T	20	0.2	1.25	18	0.4	1.30	0 + 60	50		N	70 x 70 x 28	0.5
TBL 52	1.2 - 1.4	T	20	0.4	1.25	18	0.4	1.30	0 + 60			SMA	53.4 x 54 x 28	0.3
F 30572 A	1.2 - 1.7	T	23	0.5	1.25	20	0.6	1.25	-10 + 60	1		SMA	29 x 27 x 22	0.07
AR 2925	1.2 - 1.8	T	20	0.5	1.15	20	0.6	1.25	-10 + 60	1		SMA	29 x 26 x 22	0.07
TBL 11	1.21 - 1.32	T	23	0.3	1.20	20	0.4	1.30	-30 + 55	50	1.5	N	53.4 x 54 x 28	0.3
TBL 12	1.25 - 1.35	T	23	0.3	1.20	20	0.4	1.30	-30 + 55	50	1.5	N	53.4 x 54 x 28	0.3
F 30572	1.25 - 1.65	T	23	0.5	1.2				-10 + 60	1		SMA	Ø 28	0.050
TBL 51	1.3 - 1.65	T	21	0.4	1.20	20	0.5	1.20	-20 + 55			SMA	53.4 x 54 x 28	0.3
F 30556	1.35 - 1.70	T	18	0.5	1.3	17	0.7	1.35	-40 + 80	20	1	SMA	30 x 30 x 19	0.1
TBL 511	1.35 - 1.70	T	20	0.5	1.25	18	0.55	1.30	-25 + 55			SMA	53.4 x 54 x 28	0.3
TBL 41	1.35 - 2.1	T	18	0.4	1.30	14	0.4	1.5	-40 + 85	25		N	114.4x113.3x28.4	1.2
AR 2954	1.4 - 1.8	T	20	0.3	1.25	17	0.5	1.35	-10 + 50	25	0.1	SMA	56 x 53 x 18	0.16
F 30534	1.6 - 1.9	T	20	0.4	1.25	18	0.5	1.30	-40 + 70	10	1	SMA	30 x 30 x 19	0.10
TBL 54	1.65 - 1.75	T	20	0.3	1.25	20	0.3	1.25	-20 + 70			SMA	53.4 x 54 x 28	0.3

T : total T : full band

dispositifs coaxiaux coaxial devices

circulateurs coaxiaux, 3 voies 3 port coaxial circulators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTERISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTERISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPERATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. V.S.W.R.	DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. V.S.W.R.						
TBL 14	1.68 - 1.78	T	23	0.3	1.25	20	0.5	1.25	-10 + 60	50		N	53.4 x 54 x 28	0.3
F 30567	1.7 - 2.1	T	25	0.3	1.12	18	0.5	1.30	-30 + 80	10	0.1	SMA	49 x 50 x 15	0.14
TBS 221	1.7 - 2.1	T	22	0.3	1.20	20	0.3	1.25	-25 + 55			SMA	63.5 x 63.6 x 25.6	0.5
TBS 22	1.7 - 2.3	T	22	0.3	1.20	20	0.4	1.25	-30 + 70	20		N	63.5 x 63.6 x 28.6	0.5
YBS 20	1.7 - 2.7	T	20	0.4	1.25	18	0.5	1.30	0 + 55	20		N	Ø 88 x 35	0.7
TBS 60	1.8 x 2.1	T	20	0.4	1.20	17	0.5	1.35	-20 + 60			SMA	27.6 x 26.3 x 13.7	0.05
TBS 225	1.8 - 2.1	T	25	0.3	1.15	20	0.3	1.25	-20 + 60			SMA	44.3 x 44.5 x 15.2	0.05
F 30530	1.9 - 2.3	150	18	0.5	1.30	18	0.5	1.30	-30 + 70	10	0.1	SMA	25 x 22 x 20	0.05
F 30568	2 - 2.3	T	25	0.4	1.12	18	0.5	1.30	-40 + 80	10	0.1	SMA	45 x 44 x 15	0.09
TBS 41	2 - 3	T	20	0.3	1.25	18	0.5	1.30	0 + 60	20		N	56.9 x 61.3 x 27.5	0.40
F 30531	2 - 2.7	T	20	0.4	1.25	18	0.5	1.30	-10 + 60	10	0.1	SMA	45 x 44 x 15	0.09
TBS 51	2.05 - 2.85	T	25	0.3	1.15	18	0.5	1.30	-40 + 70			SMA	56.3 x 57.6 x 22.3	0.25
TBS 25	2.1 - 2.3	T	25	0.3	1.15	20	0.3	1.20	-20 + 60			SMA	44.3 x 44.5 x 15.2	0.15
TBS 511	2.1 - 2.7	T	22	0.3	1.20	20	0.3	1.25	-25 + 55			SMA	63.5 x 63.6 x 25.6	0.20
TBS 61	2.15 - 2.5	T	20	0.4	1.20	17	0.5	1.35	-20 + 60			SMA	27.6 x 26.6 x 13.7	0.20
F 30569	2.3 - 2.7	T	25	0.4	1.12	17	0.6	1.40	-40 + 80	10	0.1	SMA	45 x 44 x 15	0.09
TBS 52	2.3 - 4.3	T	16	0.5	1.40	14	0.7	1.50	0 + 70			SMA	56.3 x 57.6 x 22.3	0.25
TMS 15	2.35 - 2.55	T	25	0.35	1.15	20	0.5	1.20	0 + 50	220	7.5	N	56.9 x 61.3 x 31.6	0.4
TBS 26	2.4 - 2.6	T	20	0.3	1.25	16	0.5	1.40	-20 + 60			SMA	30.7 x 32.4 x 17.2	0.07
TMS 13	2.4 - 2.6	T	25	0.4	1.15	20	0.5	1.25	0 + 60	150	3	N	56.9 x 61.3 x 27.5	0.4
YBS 13	2.5 - 3.5	T	22	0.3	1.20	20	0.3	1.25	0 + 60	20		N	Ø 76.2 x 35.2	0.65
R 2916 B	2.6 - 3.4	T	23	0.3	1.15	20	0.35	1.25	-10 + 50	10	0.1	SMA	42 x 40 x 16	0.08
TBS 13	2.9 - 3.1	T	20	0.3	1.25	16	0.5	1.40	-20 - 60			SMA	30.7 x 32.4 x 17.2	0.09
TBS 411	2.9 - 3.2	T	30	0.4	1.15	25	0.5	1.20	0 - 50	20		N	56.9 x 61.3 x 27.5	0.4
TBC 21	3 - 3.5	T	26	0.3	1.10	20	0.5	1.20	-40 - 70			SMA	43.7 x 44.1 x 19.2	0.15
TBC 22	3.2 - 3.7	T	30	0.3	1.10	20	0.4	1.20	-55 - 70			SMA	43.7 x 44.1 x 19.2	0.15
TBC 23	3.5 - 4	T	25	0.25	1.15	20	0.3	1.25	-20 - 70			SMA	32.4 x 32.7 x 15.6	0.055
TBC 281	3.7 - 4.2	T	30	0.2	1.10	25	0.2	1.10	0 + 70			SMA	25.4 x 27.7 x 17.5	0.05
TBC 29	3.7 - 4.2	T	20	0.2	1.25	18	0.3	1.30	-40 + 70			SMA	24.6 x 22 x 17	0.05
TBC 282	3.7 - 4.2	T	27	0.3	1.10	25	0.3	1.15	+15 + 45		20	N	25.4 x 35.1 x 27.4	0.05
R 2943 B	3.7 - 4.2	T	30	0.25	1.10	23	0.3	1.15	-40 + 65	10	0.1	SMA	29 x 26 x 16	0.06
AR 2988	3.7 - 4.2	T	25	0.25	1.15	20	0.3	1.20	-20 + 60	10	0.1	SMA	28 x 25 x 18	0.06
TBC 33	3.7 - 3.9	T	23	0.2	1.15	18	0.3	1.30	-40 + 70			SMA	24.6 x 22 x 17	0.045
R 2943 A	4 - 4.6	T	30	0.25	1.10	23	0.3	1.20	-40 + 85	10	0.1	SMA	29 x 26 x 16	0.06
TBC 54	4 - 5	T	22	0.3	1.15	20	0.3	1.20	-30 + 70			SMA	27.3 x 29.7 x 15.8	0.05
F 30536	4 - 5	600	30	0.26	1.10	25	0.3	1.2	-40 + 80	10	0.1	SMA	29 x 26 x 18	0.05
F 30546	4 - 5	T	23	0.3	1.20	20	0.40	1.25	-10 + 60	10	0.1	SMA	28 x 25.5 x 16.5	0.050
TBC 32	4.2 - 4.4	T	25	0.3	1.15	23	0.3	1.20	-20 - 70			SMA	25.4 x 27.7 x 17.5	0.05
TBC 51	4.3 - 6.9	T	20	0.3	1.25	18	0.4	1.30	0 - 70			SMA	25.4 x 27.7 x 17.5	0.05
TBC 541	4.4 - 5	T	30	0.2	1.10	23	0.3	1.15	-25 - 75			SMA	27.3 x 29.7 x 15.8	0.05
TBC 34	4.8 - 5.2	T	20	0.2	1.25	18	0.3	1.30	-40 + 70			SMA	18 x 22 x 16.5	0.04
AR 2920 B	5 - 10.5	1500	30	0.3	1.10	23	0.40	1.20	-30 + 100	5	0.03	SMA	30 x 29 x 20	0.070
R 2989 B	5 - 7.5	1200	30	0.3	1.10	25	0.40	1.20	-50 + 90	5	0.1	SMA	22 x 20 x 13	0.070
TBC 35	5.3 - 5.9	T	20	0.2	1.25	18	0.3	1.30	-40 + 70			SMA	18 x 22 x 16.5	0.04
TBC 60	5.4 - 5.9	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.04
TBC 41	5.4 - 5.9	T	25	0.4	1.20	20	0.5	1.25	-40 + 70	20		N	27.5 x 35.1 x 27.6	0.15
R 2989 A	5.9 - 7.5	T	25	0.3	1.15	20	0.40	1.20	-10 + 60	10	0.1	SMA	22 x 20 x 13	0.070
TBC 621	5.9 - 6.4	T	23	0.25	1.15	23	0.25	1.15	0 + 60			SMA	16 x 22.7 x 18	0.03
TBC 612	5.9 - 6.4	T	20	0.25	1.25	18	0.3	1.30	-40 + 70			SMA	16 x 22.7 x 18	0.03
TBC 625	5.9 - 6.4	T	25	0.12	1.10	23	0.12	1.15	0 + 50			SMA	16 x 22.7 x 18	0.03
TBC 623	5.9 - 6.4	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.03
TBC 62	5.9 - 6.5	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBC 631	6.4 - 7.1	T	23	0.25	1.15	20	0.25	1.20	0 + 60			SMA	16 x 22.7 x 18	0.03
TBC 643	6.4 - 7.1	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.03
TBC 64	6.4 - 7.1	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBC 635	6.4 - 7.1	T	25	0.12	1.10	23	0.12	1.15	0 + 50			SMA	16 x 22.7 x 18	0.030
TBC 651	7.1 - 7.8	T	28	0.2	1.08	25	0.3	1.15	0 + 55			SMA	16 x 22.7 x 18	0.030
TBC 661	7.1 - 7.8	T	23	0.4	1.15	20	0.5	1.20	-30 + 70			SMA	16 x 22.7 x 18	0.030
TBC 663	7.1 + 7.8	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.030
TBC 66	7.1 - 7.8	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 313	7.55 - 8.35	T	20	0.3	1.25	18	0.3	1.30	-30 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 312	7.6 - 8.4	T	20	0.3	1.25	18	0.3	1.30	-30 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 314	7.65 - 8.45	T	20	0.3	1.25	18	0.35	1.30	-30 + 70			SMA	12.9 x 17.2 x 12.7	0.030

T : total T : full band

circulateurs coaxiaux, 3 voies
3 port coaxial circulators

TYPE TYPE	BANDE DE FREQUENCE FREQUENCY RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTERISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTERISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPERATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRETE PEAK POWER kW	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. VS.WR.	DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. VS.WR.						
TBX 302	7.8 - 8.1	T	22	0.3	1.20	20	0.3	1.30	-40 + 100			SMA	12.7 x 12.7 x 12.7	0.015
TBX 30	7.8 - 8.7	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 303	7.8 - 8.7	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.030
F 30595	8 - 13	1000	20	0.3	1.20	20	0.35	1.20	-30 + 70	10	0.05	SMA	12.7 x 12.7 x 12.7	0.018
F 30603	8 - 11	2000	23	0.5	1.20	20	0.5	1.25	-40 + 100	10	0.1	SMA	18.5 x 22.5 x 18.5	0.040
TBX 32	8.7 - 9.6	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 33	8.9 - 9.9	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 325	9.2 - 9.5	T	22	0.3	1.20	20	0.3	1.30	-40 + 80			SMA	12.7 x 12.7 x 12.7	0.015
TBX 34	9.6 - 10.6	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 343	9.6 - 10.6	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.030
F 30604	10 - 12	T	25	0.4	1.25	20	0.4	1.25	-40 + 100	10	0.1	SMA	18.5 x 22.5 x 18.5	0.040
F 30553	10.125 - 10.875	T	20	0.3	1.20	20	0.4	1.25	+10 + 50			SMA	12.9 x 17.2 x 12.7	0.030
F 30605	10.2 - 12.4	T	25	0.3	1.15	20	0.4	1.25	-40 + 100	10	0.1	SMA	18.5 x 22.5 x 18.5	0.040
TBX 48	10.5 - 12.5	T	18	0.4	1.35	16	0.5	1.40	-40 + 90			SMA	18 x 22 x 16.5	0.035
TBX 36	10.6 - 11.7	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 363	10.6 - 11.7	T	20	0.3	1.20	18	0.3	1.30	-40 + 70			SMA	12.9 x 17.2 x 12.7	0.030
TBX 481	10.7 - 11.7	T	25	0.3	1.15	25	0.3	1.15	0 + 60			SMA	18 x 22 x 16.5	0.035
TBX 38	11.3 - 12.4	T	20	0.3	1.25	18	0.3	1.30	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBX 383	11.5 - 12.5	T	20	0.3	1.15	20	0.4	1.25	-30 + 60			SMA	12.9 x 17.2 x 12.7	0.030
TBK 32	12 - 13.25	T	23	0.5	1.15	20	0.5	1.25	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBK 34	12.2 - 13.3	T	23	0.5	1.15	20	0.5	1.25	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBK 323	12.5 - 13.5	T	20	0.3	1.15	20	0.4	1.25	-30 + 60			SMA	12.9 x 17.2 x 12.7	0.03
F 30606	12.5 - 13.5	T	20	0.5	1.25	20	0.5	1.25	-40 + 100	10	0.1	SMA	18.5 x 22.5 x 18.5	0.040
TBK 36	13.1 - 13.7	T	23	0.5	1.15	20	0.5	1.25	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBK 363	13.175 - 13.675	T	20	0.4	1.20	20	0.5	1.25	+10 + 50			SMA	12.9 x 17.2 x 12.7	0.030
TBK 373	13.5 - 14.1	T	20	0.3	1.15	20	0.4	1.25	-30 + 60			SMA	12.9 x 17.2 x 12.7	0.030
TBK 353	14 - 14.5	T	20	0.4	1.20	20	0.5	1.25	+15 + 45			SMA	12.9 x 17.2 x 12.7	0.030
TBK 38	14 - 14.5	T	23	0.5	1.15	20	0.5	1.25	-40 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBK 40 M	15 - 18	T	20	0.5	1.25	18	0.6	1.30	-54 + 70			SMA	12.7 x 12.7 x 12.7	0.015
TBK 401	15.5 - 16	T	28	0.4	1.15	25	0.5	1.30	-40 + 80			SMA	12.7 x 12.7 x 12.7	0.015
TBK 402	15.6 - 16.2	T	23	0.5	1.20	20	0.6	1.30	-40 + 100			SMA	12.7 x 12.7 x 12.7	0.015
AR 2977	16 - 18	1000	25	0.5	1.15	20	0.5	1.30	-30 + 70	5	0.1	SMA	17 x 17 x 15	0.030
AR 2991	18 - 21	1000	23	0.5	1.20	20	0.6	1.3	-30 + 70	2	0.1	SMA	15 x 15 x 15	0.025

circulateurs coaxiaux, 3 voies - large bande
3 port, wideband coaxial circulators

R 2947 B	0.55 - 1	T	15	1.3	1.5	14	1.5	1.6	+10 + 40	30	0.1	SMA	Ø 180 x 72	1.3
AR 2921	1 - 2	T	20	0.5	1.25	17	0.6	1.4	0 + 50	40	0.2	SMA	Ø 120 x 32	1
AR 2959	1.5 - 3	T	20	0.5	1.25	18	0.6	1.3	0 + 50	10	0.2	SMA	72 x 70 x 26	0.6
TBL 55	1.5 - 3	T	20	0.3	1.3	18	0.4	1.3	0 + 60	20		SMA	76 x 78 x 26	0.6
F 30539	1.7 - 2.5	T	20	0.4	1.25	18	0.5	1.3	-40 + 85	10	0.1	SMA	65 x 61 x 15	0.4
AR 2902	2 - 4	T	20	0.5	1.25	18	0.6	1.3	0 + 50	10	0.2	SMA	Ø 57 x 20	0.3
TBS 40	2 - 4	T	18	0.4	1.3	14	0.7	1.5	-20 + 80	20		SMA	57 x 61 x 27	0.4
TBS 50	2 - 4	T	18	0.4	1.3	14	0.7	1.5	-20 + 80	20		SMA	56 x 57 x 22	0.25
AR 2918	3 - 6	T	20	0.5	1.25	17	0.6	1.4	0 + 50	10	0.2	SMA	Ø 50 x 26	0.3
TBC 20	3 - 6	T	18	0.4	1.3	14	0.7	1.5	-20 + 80	20		SMA	44 x 44 x 18	0.15
TBC 52	3.7 - 7.4	T	18	0.4	1.3	15	0.5	1.4	+15 + 45	20		SMA	25.4 x 27 x 17	0.05
AR 2903	4 - 8	T	20	0.5	1.25	18	0.6	1.3	-10 + 50	10	0.05	SMA	28 x 26 x 18	0.06
TBC 50	4 - 8	T	18	0.4	1.3	14	0.7	1.5	-20 + 80	20		SMA	25.4 x 27 x 17	0.05
AR 2920	5 - 10.5	T	18	0.6	1.3	15	0.9	1.5	-30 + 100	10	0.03	SMA	30 x 29 x 20	0.07
F 30601	7 - 11	T	20	0.5	1.25	18	0.6	1.3	-40 + 100	10	0.1	SMA	18 x 22 x 18	0.04
F 30602	7 - 12.4	T	20	0.5	1.3	18	0.6	1.3	-40 + 100	10	0.1	SMA	18 x 22 x 18	0.04
MH 713	7 - 11	T	20	0.5	1.4				-30 + 70	10		SMA	17.4 x 19 x 15	0.05
MH 712	8.2 - 12.4	T	20	0.5	1.4				-30 + 70	10		SMA	17.4 x 19 x 15	0.05
F 30585	8.2 - 12.4	T	20	0.5	1.25	20	0.5	1.3	-40 + 100	10	0.1	SMA	18 x 22 x 18	0.04
F 30586	8 - 18	T	15	0.5	1.4	15	0.8	1.5	-40 + 100	10	0.1	SMA	18 x 22 x 18	0.04

T: total T: full band

dispositifs coaxiaux coaxial devices

circulateurs coaxiaux, 4 voies 4 port coaxial circulators

TYPE TYPE	BANDE DE FREQUENCY RANGE GHz	BANDE PASSANTE BAND WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C					CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE					GAMME DE TEMPÉ- RATURES TEMPÉ- RATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	CONNEC- TEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB		PERTES INSERTION LOSSES dB		R.O.S. V.S.W.R.	DÉCOUPLAGE ISOLATION dB		PERTES INSERTION LOSSES dB		R.O.S. V.S.W.R.						
			2-1 4-3	3-2 1-4	1-2 3-4	2-3 4-1		2-1 4-3	3-2 1-4	1-2 3-4	2-3 4-1							
HBU 110	0.79 - 0.89	T	23	45	0.4	0.8	1.15	20	40	0.5	0.8	1.25	0 - 50		SMA	80 x 35 x 19	0.29	
HBU 111	0.89 - 0.96	T	23	45	0.4	0.8	1.15	20	40	0.5	0.8	1.25	0 - 50		SMA	80 x 35 x 19	0.29	
AR 2974A	0.9 - 1.2	100	20	40	0.6	1	1.25	20	40	0.6	1.1	1.25	-40 + 70	10	2	SMA	25 x 40 x 85	0.35
R 2981	0.96 - 1.215	T	20	40	0.35	0.7	1.25	20	40	0.35	0.7	1.25	-30 - 70	100	10	SMA	34 x 110 x 190	1.9
HBL 04	1 - 1.1	T	21	43	0.3	0.6	1.20	20	40	0.4	0.7	1.25	0 + 60	50	1.5	N	53.4 x 106.5 x 28	0.6
HBL 11	1.2 - 1.3	T	21	45	0.3	0.6	1.15	20	40	0.3	0.6	1.25	-30 + 55	50	1.5	N	53.4 x 106.5 x 28	0.6
HBL 12	1.25 - 1.35	T	25	50	0.4	0.8	1.25	20	40	0.5	1	1.25	-50 + 85	50		N	53.4 x 106.5 x 28	0.6
HBL 10	1.2 - 1.4	T	21	45	0.2	0.4	1.20	18	35	0.4	0.8	1.30	0 + 60	50		N	70 x 132 x 28	1
F 30500	1.2 - 1.8	100	20	40	0.3	0.5	1.20	20	40	0.35	0.65	1.20	0 + 50	50	0.5	SMA	26 x 61 x 108	0.4
AR 2928	1.425 - 1.575	T	20	40	0.3	0.6	1.20	25	40	0.35	0.7	1.20	0 + 50	80	0.5	SMA	30 x 65 x 110	0.7
HBL 54	1.65 - 1.75	T	21	43	0.3	0.6	1.20	20	40	0.3	0.6	1.25	-20 + 70	50	0.2	SMA	53.4 x 106.5 x 28	0.6
HBS 601	1.7 - 1.9	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HBS 602	1.9 - 2.1	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HBS 603	2.1 - 2.3	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HBS 604	2.3 - 2.5	T	23	50	0.4	0.6	1.15	20	40	0.5	0.8	1.20	0 + 50			SMA	55.5 x 25.6 x 13.5	0.08
HMS 14	2.4 - 2.6	T	24	45	0.3	0.6	1.15	20	40	0.3	0.6	1.25	0 + 60	150	3	N	57 x 109.2 x 28.2	0.6
HBS 30	2.5 - 3.5	T	21	42	0.3	0.5	1.20	20	40	0.3	0.6	1.25	0 + 60	10		N	57 x 109.2 x 28.2	0.6
R 2987	2.7 - 3.3	T	20	40	0.3	0.5	1.25	20	40	0.35	0.6	1.25	-20 + 70	20	0.5	SMA	24 x 85 x 125	0.6
HBC 288	3.6 - 4.3	T						25	40	0.12	0.25	1.10	-20 ± 5			SMA	31.8 x 60 x 21	0.14
HBC 286	3.7 - 4.2	T						33	50	0.1	0.25	1.05	-20 ± 5			SMA	31.8 x 60 x 21	0.14
HBC 287	3.7 - 4.2	T						33	50	0.1	0.25	1.05	-20 ± 5			SMA	31.8 x 60 x 21	0.14
F 30548	3.7 - 4.2	T	25	40	0.3	0.5	1.15	20	40	0.4	0.8	1.20	0 - 50	20	0.5	SMA	16 x 29 x 70	0.15
AR 2915D	3.7 - 5.2	T	17	35	0.5	1	1.40	17	35	0.5	1	1.40	-40 + 85	10	0.5	SMA	15.5 x 30 x 57	0.09
HBC 27	3.7 - 5.2	T	22	40	0.3	0.6	1.20	20	40	0.3	0.6	1.25	0 - 40	5		SMA	28.5 x 52 x 17.5	0.09
HBC 26	3.6 - 4.2	T	25	45	0.3	0.6	1.15	20	40	0.3	0.6	1.25	-20 - 70	5		SMA	27.2 x 57.3 x 15	0.09
AR 2930	4.7 - 5.3	T	25	40	0.3	0.6	1.10	25	40	0.35	0.7	1.10	0 + 50	10	0.5	SMA	16 x 30 x 62	0.14
HBC 34	4.8 - 5.2	T	22	40	0.4	0.8	1.20	20	40	0.4	0.8	1.25	-40 + 90	5	1.5	SMA	17 x 42.9 x 17	0.07
HBC 61	5.3 - 5.6	T	20	40	0.3	0.5	1.20	16	35	0.4	0.6	1.40	-20 + 70	5		SMA	13.7 x 25.4 x 12.7	0.05
HBC 60	5.4 - 5.9	T	20	40	0.3	0.5	1.20	16	35	0.4	0.6	1.40	-20 + 70	5		SMA	13.7 x 25.4 x 12.7	0.05
HBC 602	5.4 - 5.9	T	16	35	0.4	0.6	1.40	16	35	0.4	0.6	1.40	-20 + 70	20		SMA	12.7 x 32.1 x 12.7	0.029
HBC 604	5.4 - 5.9	T	16	35	0.4	0.6	1.40	16	35	0.4	0.6	1.40	-40 + 70	20		SMA	12.7 x 32.1 x 12.7	0.029
AR 2909	5.9 - 7.5	T	25	40	0.35	0.7	1.20	20	40	0.4	0.8	1.20	0 + 50	10	0.1	SMA	20 x 30 x 62	0.14
HBC 631	6.4 - 7.1	T	25	50	0.25	0.4	1.10	23	45	0.25	0.4	1.15	0 + 55			SMA	22 x 41.2 x 12.7	0.07
AR 2916	7 - 11	T	20	40	0.5	0.9	1.25	20	40	0.6	1.1	1.25	-30 - 70	10	0.1	SMA	20 x 30 x 68	0.13
HBC 651	7.1 - 7.9	T	23	45	0.25	0.4	1.15	23	45	0.3	0.5	1.15	0 + 55			SMA	22 x 41.2 x 12.7	0.07
HBX 30	7.6 - 8.4	T						18	35	0.3	0.5	1.30	-40 - 70	5		SMA	13.7 x 25.4 x 12.7	0.02
AR 2916B	8.2 - 12.4	T	20	40	0.5	0.9	1.25	20	40	0.6	1.1	1.25	-30 - 70	10	0.03	SMA	20 x 30 x 68	0.13
HBX 32	8.7 - 9.6	T	22	43	0.3	0.5	1.20	16	35	0.4	0.5	1.45	-40 - 70	5		SMA	13.7 x 25.4 x 12.7	0.02
HBX 33	9.2 - 9.5	T	22	43	0.3	0.5	1.20	20	40	0.3	0.5	1.25	-40 - 70	5	0.5	SMA	13.7 x 25.4 x 12.7	0.02
HBX 485	10.85 - 11.8	T						35	50	0.12	0.25	1.05	25 ± 5			SMA	17.2 x 42.2 x 19.1	0.1
HBX 486	10.85 - 11.8	T						25	40	0.12	0.25	1.10	25 ± 5			SMA	17.2 x 42.2 x 19.1	0.1
F 30507	13.7 - 14.7	T	16	40	0.55	1	1.25	20	40	0.6	1.1	1.25	-40 - 70	10	0.1	SMA	13 x 18 x 33	0.1
HBK 401	15.5 - 16	T	23	48	0.4	0.7	1.20	22	45	0.5	0.8	1.30	-40 + 100			SMA	12.7 x 25.4 x 12.7	0.02
HBK 40	15.5 - 16.5	T	22	43	0.3	0.6	1.15	20	40	0.3	0.6	1.20	-40 + 100	3		SMA	12.7 x 25.4 x 12.7	0.02
HBK 41	15.8 - 16.3	T	23	48	0.4	0.7	1.20	20	40	0.5	0.8	1.30	-40 + 100			SMA	12.7 x 25.4 x 12.7	0.02
AR 2960	16 - 18	800	20	40	0.4	0.8	1.20	20	40	0.5	0.9	1.20	-40 + 70	10	0.1	SMA	13 x 20 x 34	0.09

circulateurs coaxiaux, 4 voies à faibles pertes 4 port, low insertion loss, coaxial circulators

TYPE TYPE	BANDE DE FREQUENCY RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C					GAMME DE TEMPÉRATURES TEMPERATURE RANGE °C	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB		PERTES INSERTION LOSSES dB		R.O.S. V.S.W.R.				
			2-1 4-3	3-2 1-4	1-2 3-4	2-3 4-1					
F 30563	1.67 - 1.75	T	30	45	0.12	0.30	1.10	-10 + 60	SMA	160 x 65 x 27	0.7
F 30570	2.2 - 2.3	T	30	45	0.12	0.25	1.10	-10 + 60	SMA	122 x 52 x 27	0.55
F 32205	2.9 - 3.1	T	30	45	0.12	0.25	1.10	-10 + 60	SMA	105 x 46 x 27	0.45
F 30587	3.7 - 4.2	T	30	45	0.12	0.25	1.10	-10 + 60	SMA	67 x 28 x 16	0.18
F 32206	10 - 10.5	T	28	40	0.25	0.5	1.15	-10 + 60	SMA	44 x 18 x 13	0.06

T : total T : full band

isolateurs coaxiaux

Les circulateurs figurant dans les pages précédentes peuvent être transformés en isolateurs par remplacement d'une sortie par une charge adaptée.

Les charges adaptées standards sont :

1 W moyen 30 W crête 20 W moyen 500 W crête
3 W moyen 100 W crête 50 W moyen 1 kW crête
10 W moyen 100 W crête

Des charges spéciales peuvent être étudiées et installées sur demande.

La désignation commerciale des isolateurs ainsi réalisés s'obtient à partir de la référence du circulateur suivie du suffixe CHx (x indiquant le numéro de la voie portant la charge). exemple : TBC 66-CH3 : Isolateur réalisé à partir du circulateur TBC 66 avec charge sur la voie 3.

Cependant, pour les circulateurs références F 00000 et AR 00000 le tableau suivant donne la liste des isolateurs correspondants.

coaxial isolators

The circulators illustrated in the preceding pages can be converted into isolators by replacing one output by a matched load.

The standard matched loads are:

1 W mean 30 W peak 20 W mean 500 W peak
3 W mean 100 W peak 50 W mean 1 kW peak
10 W mean 100 W peak

Special loads can be studied and installed on request.

The commercial part number of such isolators can be determined by adding to the circulator reference number the suffix CHx (x signifying the number of the port that has the load).

for example: TBC 66-CH3:

an isolator realised with a load on port 3 of circulator TBC 66. However for circulators, reference F 00000 and AR 00000, the following table gives the list of the corresponding isolator.

**tableau de correspondance (circulateurs - isolateurs)
equivalence table (circulators - isolators)**

FREQUENCE FREQUENCY	CIRCULATEUR CIRCULATOR	ISOLATEUR ISOLATOR	FREQUENCE FREQUENCY	CIRCULATEUR CIRCULATOR	ISOLATEUR ISOLATOR
0.7 - 0.8	F 30543	F 30043	3.7 - 4.2	R 2943 B	R 2695 C
0.8 - 0.95	F 30558	F 30058	3.7 - 4.2	AR 2988	AR 2643
0.96 - 1.215	F 30590	F 30049	4 - 4.6	R 2943 A	R 2695 A
1 - 1.1	F 30581	F 30081	4 - 5	F 30536	F 30005
1.2 - 1.4	F 30533	F 30010	4 - 5	F 30546	F 30046
1.2 - 1.7	F 30572 A	F 30072	5 - 7.5	R 2989 B	AR 260 AC
1.2 - 1.8	AR 2925	AR 2600	5.9 - 7.5	R 2989 A	F 30006
1.35 - 1.7	F 30556	F 30056	5 - 10.5	AR 2920 B	R 2694 C
1.4 - 1.8	AR 2954	AR 2654	8 - 11	F 30603	F 30103
1.6 - 1.9	F 30534	F 30012	8 - 13	F 30595	F 30095
1.7 - 2.1	F 30567	F 30067	10 - 12	F 30604	F 30104
1.9 - 2.3	F 30530	R 2697 B	10.2 - 12.4	F 30605	F 30105
2 - 2.3	F 30568	F 30068	12.5 - 13.5	F 30606	F 30106
2 - 2.7	F 30531	F 30031			
2.3 - 2.7	F 30569	F 30069			
2.6 - 3.4	R 2916 B	AR 2603			

isolateurs coaxiaux coaxial isolators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPERATURES TEMPERATURE RANGE °C	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
		DÉCOUPLAGE ISOLATION dB min	Pertes INSERTION LOSSES dB max	R.O.S. V.S.W.R. max	DÉCOUPLAGE ISOLATION dB min	Pertes INSERTION LOSSES dB max	R.O.S. V.S.W.R. max				
AR 2600 B	0.55 - 1	15	1.3	1.5	14	1.5	1.6	+ 10 + 40	SMA	72 x Ø 180	1.3
AR 2620	1 - 2	20	0.5	1.25	17	0.6	1.4	0 + 50	SMA	32 x Ø 120	1
F 30025	1.5 - 3	20	0.5	1.25	18	0.6	1.3	0 + 50	SMA	72 x 26 x 70	0.60
F 30039	1.7 - 2.5	20	0.4	1.25	18	0.5	1.3	- 40 + 85	SMA	65 x 61 x 15	0.40
AR 2621	2 - 4	20	0.5	1.25	18	0.6	1.3	0 + 50	SMA	20 x Ø 57	0.30
IBS 30	2.7 - 3.3	17	0.6	1.15	15	0.9	1.20	0 + 60	SMA	125 x Ø 20	0.15
AR 2623	3 - 6	20	0.5	1.25	17	0.6	1.4	0 + 50	SMA	26 x Ø 50	0.30
AR 2622	4 - 8	20	0.5	1.25	18	0.6	1.3	- 10 + 50	SMA	28 x 26 x 18	0.06
IBX 90	4.5 - 13	20	1.2	1.35					SMA	45 x 32 x 22	0.20
R 2694	5 - 10.5	18	0.6	1.30	15	0.9	1.5	- 30 + 100	SMA	30 x 29 x 20	0.07
F 30101	7 - 11	20	0.5	1.25	18	0.6	1.3	- 40 + 100	SMA	18.5 x 22.5 x 18	0.04
F 30102	7 - 12.4	20	0.5	1.30	18	0.6	1.3	- 40 + 100	SMA	18.5 x 22.5 x 18	0.04
F 30085	8.2 - 12.4	20	0.5	1.25	20	0.5	1.3	- 40 + 100	SMA	18.5 x 22.5 x 18	0.04
F 30086	8 - 18	15	0.6	1.4	15	0.8	1.5	- 40 + 100	SMA	18.5 x 22.5 x 18	0.04
IBK 90	8 - 18	20	1.2	1.35					SMA	35 x 22 x 18	0.10

dispositifs coaxiaux

coaxial devices

isolateurs multioctave "OSEL"

multioctave "OSEL" isolators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTÉRISTIQUE A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉRATURES TEMPERATURE RANGE °C	CONNECTEUR CONNECTOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. V.S.W.R.	DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S. V.S.W.R.				
F 30114	2 - 4	T	35	1.2	1.22	30	1.2	1.25	0 + 50	SMA	80 x 52 x 30	0.5
F 30022	2 - 10	T	15	1.5	1.25	13	2	1.30	0 + 50	SMA	80 x 52 x 30	0.5
F 30022A	2.5 - 6	T	20	0.7	1.20	20	1	1.20	0 + 50	SMA	67 x 33 x 30	0.5
F 30088	3 - 18	T	17	2	1.45	15	2.2	1.5	0 + 50	SMA	50 x 35 x 26	0.18
F 30079	3.2 - 11	T	20	0.6	1.25	20	0.7	1.30	0 + 50	SMA	50 x 35 x 26	0.18
F 30074	3.5 - 14	T	20	1	1.30	18	1.4	1.35	- 40 + 85	SMA	67 x 33 x 30	0.25
F 30115	4 - 8	T	30	0.7	1.25	30	0.8	1.25	0 + 50	SMA	50 x 35 x 26	0.18
F 30075	7 - 12.4	T	20	0.8	1.25	20	1	1.25	- 40 + 100	SMA	30 x 24 x 22	0.08
F 30076	7 - 18	T	20	1	1.30	18	1.3	1.35	- 40 + 100	SMA	30 x 24 x 22	0.07
F 30116	8 - 12.4	T	35	0.8	1.25	30	0.9	1.25	- 40 + 100	SMA	30 x 24 x 22	0.08
F 30077	9 - 18.3	T	20	0.9	1.3	18	1.2	1.35	- 40 + 100	SMA	22 x 19 x 19	0.05

T : total T : full band

dispositifs sur guide waveguide devices

circulateurs sur guide, 3 voies 3 port waveguide circulators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTERISTIQUES A SPECIFICATIONS AT			CARACTERISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPE- RATURES TEMPE- RATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S V.S.W.R	DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S V.S.W.R							
F 10518	2.7 - 3.3	T	20	0.25	1.2	20	0.3	1.2	-10 + 60	100	30	R 32	CMR 284	145x160x190	4.1
TBS 80	2.9 - 3.2	T	30	0.2	1.10	25	0.2	1.2	0 + 50	300		R 32	UG 584/U	180x175x135	5.2
TBC 141	3.4 - 3.8	T	32	0.2	1.05	28	0.2	1.08	0 + 50	150	10	R 40	CMR 229	127x121x50.8	0.5
TBC 151	3.6 - 4.2	T	32	0.2	1.05	28	0.2	1.08	0 + 50	150	10	R 40	CMR 229	127x121x59.8	0.5
TBC 152	3.6 - 4.2	T	32	0.1	1.05	28	0.1	1.08	0 + 50	150	10	R 40	CMR 229	127x121x50.8	0.5
AR 2908 C	3.8 - 4.2	T	31	0.15	1.06	28	0.2	1.08	0 + 50	150	15	R 40	CMR 229	51x121x127	0.82
R 2967 B	4.2 - 5.4	500	25	0.2	1.15	20	0.3	1.2	0 + 50	20	10	R 48	UG 149A/U	92x100x115	1.5
TBC 96	4.4 - 5	T	28	0.2	1.10	25	0.2	1.15	-15 + 45	300		R 48	UER 48	120x120x74	1.5
R 2967 A	4.9 - 5.1	T	30	0.15	1.10	30	0.15	1.10	0 + 50	20	10	R 48	UG 149/U	92x100x115	1.5
AR 2975	5.4 - 5.9	T	20	0.3	1.2	20	0.3	1.2	0 + 50	30	60	R 48	UG 149A/U	130x140x140	4
TMC 541	5.9 - 6.4	T	32	0.1	1.05	28	0.1	1.08	+5 + 50	300	10	R 70	CMR 137	82.6x82x40	0.23
F 10503	5.9 - 6.4	T	20	0.3	1.2	20	0.3	1.2	-20 + 60	30	10	R 58	CPR 159	92x113x120	0.8
R 2974 B	5.85 - 8.2	T	20	0.3	1.25	20	0.3	1.25	+10 + 40	10	10	R 70	UG 344 A/U	82.5x92.5x62	0.8
TBC 781	6.4 - 7.1	T	32	0.1	1.05	28	0.1	1.08	0 + 55	25	10	R 70	CMR 137	82.6x82x40	0.23
TBC 88	7.12 - 7.42	T	32	0.2	1.08	22	0.2	1.15	0 + 60	25	5	F 70	UGF 70	82.6x80x29	0.45
F 10502	7.1 - 8.2	T	30	0.15	1.08	28	0.3	1.08	0 + 60	20	10	R 84	UG 51/U	67x67x50	0.5
TBC 751	7.1 - 7.7	T	30	0.15	1.06	28	0.15	1.08	0 + 50	25		R 70	CMR 137	82.6x80x50	0.7
TBC 87	7.42 - 7.72	T	32	0.2	1.08	22	0.2	1.15	0 + 60	25	5	F 70	UGF 70	82.6x80x29	0.45
TBC 74	7.35 - 7.85	T	32	0.2	1.05	25	0.2	1.10	0 + 55	25	10	R 70	CMR 137	82.6x80x50	0.7
TBX 01	7.5 - 8.5	T	25	0.2	1.15	20	0.3	1.20	0 + 60	25	5	R 84	UG 51/U	67x67x50	0.3
TBX 05	7.9 - 8.4	T	32	0.3	1.05	28	0.4	1.10	-30 + 55	25	5	R 84	UER 84	57x65x57	0.26
TMX 11	8.2 - 10.5	T	21	0.3	1.20	20	0.4	1.20	-20 + 120	25	5	R 100	UG 39/U	60x51.8x41	0.19
R 2908 D	8.2 - 10.3	200	40	0.15	1.1	40	0.15	1.1	+10 + 40	20	10	R 100	UG 39/U	41x51x59	0.125
R 2908 F	8.2 - 12.4	1500	23	0.2	1.15	20	0.3	1.2	-32 + 85	20	10	R 100	UG 39/U	41x57x57	0.3
R 2908 B	8.5 - 10	T	20	0.25	1.2	20	0.25	1.2	-30 + 85	20	10	R 100	UG 39/U	41x51x59	0.125
TMX 14	9.3 - 9.9	T	30	0.2	1.09	26	0.2	1.10	0 + 50	25	5	R 100	UG 39/U	60x51.8x41	0.19
TMX 10	10.5 - 12.2	T	25	0.3	1.15	20	0.5	1.20	-10 + 50	25	5	R 100	UG 39/U	60x51.8x41	0.19
TBX 231	10.7 - 11.7	T	30	0.15	1.05	26	0.15	1.10	-20 + 60	25	5	R 120	UBR 120	44.5x44.5x38.1	0.19
F 10500	10.95 - 11.7	T	30	0.15	1.08	28	0.2	1.12	-10 + 50	10	5	R 120	UBR 120	38x47.5x47.5	0.16
F 10501	10.95 - 11.7	T	30	0.15	1.1	27	0.15	1.15	0 + 40	50	5	R 120	UBR 120	38x47.5x47.5	0.16
F 10524	10.95 - 12	T	25	0.2	1.15	20	0.3	1.2	-10 + 50	10	5	R 120	UBR 120	38x47.5x47.5	0.16
TBX 261	11.7 - 12.5	T	30	0.15	1.05	26	0.15	1.10	-20 + 60	25	5	R 120	UBR 120	44.5x44.5x38.1	0.16
F 10511	12.4 - 12.6	T	25	0.25	1.15	25	0.3	1.15	0 + 50	5	5	R 140	UG 419/U	37x38x38	0.13
TBX 241	12.5 - 13.5	T	30	0.15	1.05	26	0.15	1.10	-20 + 60	25	5	R 120	UBR 120	44.5x44.5x38.1	0.14
TBK 10	12.5 - 14	T	22	0.3	1.20	20	0.3	1.20	-40 + 70	15	5	R 140	UG 419/U	38x40x35	0.14
F 10500 A	12.7 - 13.2	T	30	0.15	1.08	28	0.2	1.15	0 + 40	5	5	R 120	UBR 120	38x47.5x47.5	0.16
F 10525	13.5 - 14.5	T	25	0.25	1.12	20	0.3	1.2	-10 + 50	5	5	R 120	UBR 120	38x47.5x47.5	0.16
R 2969 A	12.7 - 17	2000	20	0.4	1.2	20	0.4	1.2	-40 + 70	5	5	R 140	UG 419/U	38x38x38	0.15
TBX 251	14 - 14.5	T	30	0.15	1.05	26	0.15	1.10	-20 + 60	25	5	R 120	UBR 120	44.5x44.5x38.1	0.15
TBK 23	15 - 15.25	T	26	0.3	1.10	23	0.3	1.15	0 + 60	15	5	R 140	UG 419/U	38x40x35	0.14
TBK 21	15.5 - 17	T	22	0.3	1.20	20	0.3	1.20	0 + 60	15	5	R 140	UG 419/U	38x40x35	0.14
TBK 22	15.5 - 17	T	22	0.3	1.20	20	0.3	1.20	0 + 60	15	5	R 140	Haut. réduite	38x28x27	0.07
TBK 53	18 - 21	T	23	0.3	1.15	20	0.3	1.20	-40 + 70	15		R 220	UG 597/U	32x32x25	0.08
F 10558	18 - 22	T	23	0.3	1.2	20	0.3	1.25	-10 + 50	2	2	R 220	UBR 220	38x47.5x47.5	0.16
F 10537	27 - 32	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	2	2	R 320	UG 381/U	40x36x36	0.205
F 10539	27 - 32	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	2	2	R 320	UG 599/U	30x31x24	0.08
F 10540	29.5 - 36	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	2	2	R 320	UG 381/U	40x36x36	0.405
F 10542	30 - 35	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	2	2	R 320	UG 381/U	40x36x36	0.205
F 10544	30 - 35	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	2	2	R 320	UG 599/U	30x31x24	0.08
F 10529	30 - 37	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	2	2	R 320	UG 381/U	40x36x36	0.405
F 10545	30 - 37	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	2	2	R 320	UG 599/U	40x36x36	0.405
F 10546	32 - 38	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	2	2	R 320	UG 381/U	40x36x36	0.405
F 10547	32 - 38	T	20	0.4	1.2	19	0.5	1.25	-10 + 60	2	2	R 320	UG 599/U	40x36x36	0.405
R 2971 B	33 - 37	T	20	0.4	1.20	20	0.5	1.25	-10 + 60	2	2	R 320	UG 599/U	30x31x24	0.080
F 10548	33 - 39	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	1	1	R 320	UG 381/U	40x36x36	0.405
F 10549	33 - 39	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	1	1	R 320	UG 599/U	40x36x36	0.405
TBK 71	33.8 - 34.3	T	20	0.3	1.15	20	0.3	1.20	-40 + 70	15		R 220	UG 597/U	32x32x25	0.06
F 10530	34.5 - 40.5	T	20	0.4	1.25	19	0.5	1.25	-10 + 60	1	1	R 400	UG 383/U	40x36x36	0.405
F 10550	35 - 40	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	1	1	R 320	UG 381/U	40x36x36	0.205
TBK 70	35 - 38	T	20	0.3	1.20	20	0.3	1.20	0 + 50	15		R 320	UG 599/U	25x25x20	0.06
F 10551	35 - 40	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	1	1	R 320	UG 599/U	40x36x36	0.205
F 10552	35 - 40	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	1	1	R 320	UG 599/U	30x31x24	0.08
F 10553	35 - 40	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	1	1	R 400	UG 383/U	40x36x36	0.205
F 10531	39 - 46	T	20	0.4	1.25	20	0.5	1.25	-10 + 60	1	1	R 400	UG 383/U	40x36x36	0.405
F 10554	40 - 45	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	1	1	R 400	UG 383/U	40x36x36	0.205
F 10521	45 - 50	T	20	0.5	1.25	20	0.5	1.25	-10 + 60	1	1	R 400	UG 383/U	40x36x36	0.405

T : total T : full band

dispositifs sur guide waveguide devices

circulateurs sur guide, 4 voies 4 port waveguide circulators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTERISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTERISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPE- RATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	GUIDE WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg				
			DECOUPLAGE ISOLATION dB	PERTES INSERTIONS LOSSES dB		R.D.S. V.S.W.R	DECOUPLAGE ISOLATION dB	PERTES INSERTIONS LOSSES dB								R.D.S. V.S.W.R			
				2-1 4-3	3-2 1-4			1-2 3-4									2-3 4-1	2-1 4-3	3-2 1-4
HBC 141	3.4-3.8	T	25	50	0.15	0.3	1.05	22	45	0.2	0.4	1.10	0+50	150	10	R 40	CMR 229	254.2x121x50.8	1
HBC 151	3.6-4.2	T	25	50	0.15	0.3	1.05	22	45	0.2	0.4	1.10	0+50	150	10	R 40	CMR 229	254.2x121x50.8	1
HBC 31	4.4-4.8	T	22	45	0.3	0.6	1.20	18	40	0.4	0.8	1.20	+10+65	10	10	R 48	UG 49/U	120x230x92.5	4.5
HBC 32	4.6-5	T	22	45	0.3	0.6	1.20	18	40	0.4	0.8	1.20	+10+65	10	10	R 48	UG 49/U	120x230x92.5	4.5
AR 2971	5.85-8.2	T	20	40	0.3	0.6	1.25	20	40	0.3	0.6	1.25	0+40	10	10	R 70	UG 344/U	96x120x226	1.6
HBX 01	7.5-8.5	T	23	40	0.2	0.4	1.15	18	35	0.3	0.5	1.20	0+60	25	5	R 84	UG 51/U	67x120x50	0.6
R 2986	8.5-10	T	20	40	0.3	0.5	1.25	20	40	0.35	0.5	1.25	-35+85	20	10	R 100	UG 39/U	41x59x903	0.32
R 2986 A	10-12.2	900	20	40	0.3	0.6	1.20	20	40	0.3	0.6	1.25	-35+85	20	10	R 100	UG 39/U	41x59x103	0.56
HBX 20	10.7-11.7	T	20	35	0.3	0.5	1.15	18	35	0.3	0.5	1.20	-20+90	5	5	R 120	UBR 120	38.1x87x44.5	0.32
HBX 23	10.7-11.7	T	30	50	0.15	0.3	1.05	25	45	0.15	0.3	1.10	-20+60	25	5	R 120	UG 120	89x44.5x38.1	0.32
F 10555	10.8-11.8	T	30	50	0.1	0.2	1.07	28	50	0.1	0.2	1.10	+10+50	1	1	R 120	UBR 120	47.5x38x95	0.32
F 10513	12.4-14.4	T	20	40	0.25	0.5	1.20	20	40	0.25	0.5	1.25	0+50	10	5	R 120	UBR 120	38x47.5x95	0.32
HBK 10	12.5-12.9	T	22	38	0.2	0.4	1.15	18	25	0.3	0.5	1.20	-45+100	5	5	R 140	UG 419/U	38x73x33.5	0.29
HBK 11	12.7-13.3	T	20	35	0.3	0.5	1.15	18	25	0.3	0.5	1.20	-40+70	5	5	R 140	UG 419/U	38x73x33.5	0.29
R 2996	14-16	1000	20	40	0.3	0.6	1.20	20	40	0.4	0.7	1.25	-40+70	15	10	R 140	UG 419/U	35x45x78	0.26
HBK 12	14.4-15.15	T	22	40	0.2	0.4	1.15	20	35	0.3	0.6	1.20	0+40	5	5	R 140	UG 419/U	38x73x33.5	0.26
HBK 21	15.5-17	T	22	40	0.2	0.4	1.15	20	35	0.3	0.6	1.20	0+60	5	5	R 140	UG 419/U	38x73x33.5	0.26
F 10557	39-41	T	20	38	0.3	0.6	1.25	20	38	0.3	0.6	1.25	+10+50	1	1	R 320	UG 599/U	60x50x36	0.14

isolateurs à résonance resonance isolators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTERISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTERISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPE- RATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	GUIDE WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg		
			DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB		R.D.S. V.S.W.R	DECOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB								R.D.S. V.S.W.R	
				2-1 4-3	3-2 1-4			1-2 3-4									2-3 4-1
R 2685 A	2.4-2.5	T	17	0.5	1.12	15	0.6	1.15	-30+70	100	300	R 26	UG 553/U	110x170x250	6.9		
R 2668 B	2.6-3.4	T	19	0.4	1.20	17	0.7	1.20	-30+70	50	100	R 32	CMR 284	92x132x220	3.7		
AR 2610	3.7-4.2	T	20	1	1.15	20	1	1.15	0+50	20	50	R 40	CMR 229	92x100x180	3.1		
IBC 15	3.8-4.2	T	21	0.4	1.05	20	0.5	1.05	0+60			R 40	CMR 229	160x81x87	1.9		
R 2663	3.95-5.9	T	20	1	1.20	20	1	1.20	0+50	10	10	R 48	UG 149A/U	92x96x220	3		
B 2663 A	4-5.9	1000	25	0.5	1.15	25	0.5	1.15	0+50	50	50	R 48	UG 149A/U	92x96x180	2.1		
IBC 31	4.4-4.8	T	22	0.5	1.10	20	0.6	1.12	+10+65			R 48	UG 149A/U	141x92x92	1.4		
IBC 32	4.6-5	T	22	0.5	1.10	20	0.6	1.12	+10+65			R 48	UG 149A/U	141x92x92	1.4		
R 2663 B	5.1-5.8	T	17	0.4	1.20	15	0.5	1.20	-30+70	50	50	R 48	UG 149 A/U	92x96x150	2		
R 2664	5.9-8.2	T	25	1	1.15	25	1	1.15	0+50	10	10	R 70	UG 344/U	80x90x220	2.2		
IBC 92	5.92-6.17	T	14	0.2	1.03	12	0.3	1.04	-40+60			R 70	CPR 137	190x97x88	2.5		
IBC 93	6.17-6.42	T	14	0.2	1.03	12	0.3	1.04	-40+60			R 70	CPR 137	190x97x88	2.5		
IBC 54	5.92-6.42	T	32	0.4	1.05	30	0.5	1.05	0+60			R 70	CMR 137	82.6x60x53.3	0.64		
IBC 87	6.4-6.76	T	14	0.2	1.03	12	0.3	1.04	-40+60			R 70	CPR 137	190x97x88	2.5		
IBC 88	6.76-7.1	T	14	0.2	1.03	12	0.3	1.04	-40+60			R 70	CPR 137	190x97x88	2.5		
IBC 76	6.5-7	T	28	0.4	1.05	25	0.6	1.10	0+55			R 70	CMR 137	100x60x70	1.10		
IBC 75	7.12-7.62	T	28	0.3	1.05	25	0.5	1.10	0+55			R 70	CMR 137	100x60x48	1		
IBC 95	7.13-7.62	T	28	0.3	1.05	25	0.5	1.10	0+55			R 84	UG 51/U	80x48x48	0.55		
IBC 74	7.35-7.85	T	28	0.4	1.05	25	0.5	1.10	0+55			R 70	CMR 137	100x60x48	1		
IBC 94	7.35-7.85	T	28	0.4	1.05	25	0.5	1.10	0+55			R 84	UG 51/U	80x48x48	0.55		
R 2652 A	7.5-9.6	T	18	0.9	1.15	15	1	1.15	-30+70	10	10	R 84	UG 51/U	55x55x75	0.77		
R 2665 A	8.2-12.4	T	30	1	1.15	30	1	1.15	0+50	10	10	R 100	UG 39/U	88x70x180	3.4		
R 2605 A	8.2-12.4	1000	20	0.8	1.10	18	1	1.15	-30+70	10	10	R 100	UG 39/U	50x50x75	0.72		
IBX 13	8.4-9	T				40	1.2	1.20	-40+100			R 100	UG 39/U	77x48x44	0.5		
R 2606 A	8.5-9.6	T	40	0.8	1.15	40	0.8	1.15	+10+40	10	10	R 100	UG 39/U	68x70x150	2.8		
IBX 20	8.6-9.2	T	35	0.6	1.05	30	0.75	1.10	0+80			R 100	UG 39/U	96x48x44	0.5		
IBX 10	8.6-9.6	T	22	0.6	1.05	13	0.7	1.15	-20+70			R 100	UG 39/U	77x48x44	0.5		
IBX 11	9-9.6	T	41	0.8	1.08	40	1.2	1.20	-40+100			R 100	UG 39/U	77x48x44	0.5		
IBX 12	9.6-10.4	T	32	0.5	1.10	30	0.8	1.15	-20+65			R 100	UG 39/U	77x48x44	0.5		
IBX 41	10-10.25	T	22	0.5	1.15	20	1	1.2	-55+85			R 100	UG 39/U	78x42x42	0.4		
R 2673 B	12-18	1500	20	0.8	1.15	18	1	1.15	-30+70	5	5	R 140	UG 419/U	52x60x66	0.55		
AR 2637	12.4-18	T	30	1	1.15	30	1	1.15	0+50	5	5	R 140	UG 419/U	80x80x120	1.3		
R 2673 A	16-18	T	17	0.9	1.15	15	1	1.15	-55+125	5	5	R 140	UG 419/U	52x56.5x60	0.75		

T : total T : full band

isolateurs à effet Faraday Faraday rotation isolators

TYPE TYPE	BANDE DE FRÉQUENCE RANGE GHz	BANDE PASSANTE BANDWIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉRATURE RANGE °C	GUIDE WAVEGUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R					
IBC 30	4.4 - 5	T	22	0.5	1.15	15	1.3	1.15	-10 + 65	R 48	UG 149/U	114 x Ø 92	1.10
IBC 55	5.9 - 6.4	T	32	0.4	1.05	30	0.5	1.05	0 + 60	R 70	UG 344/U	82.6 x Ø 80	0.70
IBC 86	6.5 - 7	T	28	0.4	1.05	25	0.6	1.10	0 + 55	R 70	UG 344/U	100 x Ø 80	1.20
IBC 85	7.12 - 7.62	T	28	0.3	1.05	25	0.5	1.10	0 + 55	R 70	UG 344/U	100 x Ø 80	1.20
IBC 84	7.35 - 7.85	T	28	0.4	1.05	25	0.5	1.10	0 + 55	R 70	UG 344/U	100 x Ø 80	1.20
IBX 40	10 - 10.25	T	20	0.5	1.20	15	0.65	1.25	-55 + 85	R 100	UG 39/U	20 x Ø 54	0.18
IBK 10	12.8 - 13	T	17	0.5	1.10	15	0.7	1.15	-10 + 65	R 140	UG 419/U	18 x Ø 50	0.15
IBK 11	12.7 - 13.25	T	17	0.5	1.15	15	0.7	1.20	-40 + 70	R 140	UG 419/U	18 x Ø 50	0.15

T : total T: full band

isolateurs "cale" slimline isolators

TYPE TYPE	BANDE DE FRÉQUENCE RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉ- RATURES TEMPÉ- RATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R							
R 2693	5.85 - 8.2	300	23	0.4	1.2	20	0.4	1.3	0 + 50	5	10	R 70	UG 344/U	18 x 70 x 92	0.3
IBC 57	5.9 - 6.4	200	20	0.5	1.2	18	0.5	1.4	-25 + 60			R 70	UG 344/U	25.4 x 89 x 80	0.3
IBC 60	6.4 - 7.1	2%	26	0.25	1.15	25	0.25	1.2	-20 + 50			R 70	UER 70	24.9 x 66.3 x 39.4	0.15
IBC 59	7.1 - 7.7	2%	26	0.25	1.15	25	0.25	1.2	-20 + 50			R 70	UER 70	24.9 x 66.3 x 39.4	0.15
IBX 50	8.2 - 10.5	2%	25	0.3	1.12	22	0.4	1.2	-25 + 65			R 100	UG 39/U	12.7 x 41 x 48	0.08
IBX 50	8.2 - 10.5	3%	20	0.4	1.25	18	0.4	1.3	-25 + 65			R 100	UG 39/U	12.7 x 41 x 48	0.08
R 2639	9 - 10	400	25	0.3	1.25	20	0.4	1.3	-32 + 85	2	7	R 100	UG 39/U	12 x 41 x 48	0.07
R 2666	10 - 12	400	25	0.3	1.25	20	0.4	1.3	-32 + 85	2	2	R 100	UG 39/U	12 x 41 x 48	0.07
IBX 55	10.4 - 11	3%	20	0.4	1.25	15	0.6	1.4	-25 + 65			R 100	UG 39/U	12.7 x 41 x 48	0.08
IBX 60	10 - 15	3%	20	0.3	1.20	18	0.4	1.3	-20 + 90			R 120	UG 39/U	12.7 x 44.5 x 38	0.07
AR 2672	11 - 14	300	28	0.25	1.20	25	0.3	1.25	-10 + 60	1	1	R 120	UG 120	11 x 38 x 46.5	0.06
IBK 50	12.4 - 13.3	3%	20	0.4	1.3	18	0.5	1.35	-45 + 90			R 140	UG 419/U	9.5 x 38 x 33.4	0.04
IBK 51	12.7 - 13.3	T	20	0.4	1.3	18	0.5	1.35	-40 + 70			R 140	UG 419/U	9.5 x 38 x 33.4	0.04
R 2690	12.7 - 17	500	25	0.4	1.3	20	0.5	1.35	0 + 50	1	5	R 140	UG 419/U	8 x 33.5 x 41	0.04
R 2690 D	12.7 - 14.7	100	30	0.3	1.2	30	0.3	1.25	-40 + 85	1	5	R 140	UG 419/U	10 x 33.5 x 41	0.04
IBK 55	15.5 - 17	200	25	0.4	1.25	20	0.4	1.30	-45 + 90			R 140	UG 419/U	9.5 x 38 x 33.4	0.03
IBK 56	15.5 - 17	200	25	0.4	1.25	20	0.4	1.30	-45 + 90			R 140	UG 419/U	9.5 x 34.5 x 27	0.06
IBK 591	15.5 - 16.5	T	23	0.3	1.15	20	0.3	1.20	-40 + 85			R 140	UG 419/U	12.7 x 40 x 33.4	0.06
IBK 592	15.75 - 16.75	T	23	0.3	1.15	20	0.3	1.20	-40 + 85			R 140	UG 419/U	12.7 x 40 x 33.4	0.03
F 10001	19.5 - 24.5	500	30	0.3	1.20	30	0.4	1.20	-40 + 85	1	5	R 220	UG 595/U	12.5 x 25.5 x 25	0.04
IBK 65	21 - 24	200	25	0.4	1.10	20	0.5	1.20	-40 + 85			R 220	UG 595/U	12.7 x 22.2 x 22.2	0.04
IBK 70	32 - 40	1%	23	0.5	1.25	20	0.5	1.25	0 + 50			R 320	UG 599/U	12.7 x 32 x 19	0.03
IBQ 71	40 - 42	T	15	0.5	1.25	15	0.5	1.25	0 + 50			R 400	UG 383/U	12.7 x 19 x 25	0.03

T : total T: full band

isolateurs sur guide

Les circulateurs figurant dans les pages 67-68 peuvent être transformés en isolateurs par remplacement d'une sortie par une charge adaptée.

waveguide isolators

The circulators listed pages 67-68 can be converted into isolators by replacing one output with a matched load.

ESD 69

dispositifs de puissance high power devices

circulateurs coaxiaux, 3 voies 3 port coaxial circulators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉ- RATURES TEMPÉ- RATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	CONNEX- TEUR CONNEC- TOR	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R						
YHA 44	0.14 - 0.15	T	20	0.6	1.25	20	0.8	1.25	0 + 50	500	2	N	194 x 225 x 56	4.8
YHA 42	0.16 - 0.19	T	20	0.5	1.25	20	0.5	1.25	0 + 50	500	2	N	194 x 225 x 56	4.8
YMA 45	0.17 - 0.20	T	22	0.3	1.20	20	0.35	1.25	0 + 50	500	0.85	N	Ø 105 x 70	2
YHA 45	0.17 - 0.20	T	22	0.3	1.20	20	0.35	1.25	0 + 50	1000	1.8	HN	105 x 133.5 x 70	2
YHA 43	0.18 - 0.21	T	22	0.4	1.20	20	0.5	1.25	0 + 50	500	2	N	194 x 225 x 56	4.8
YHA 41	0.2 - 0.23	T	22	0.3	1.20	20	0.5	1.25	0 + 50	500	2	N	194 x 225 x 56	4.8
YMA 46	0.2 - 0.23	T	22	0.3	1.20	20	0.35	1.25	0 + 50	500	0.85	N	Ø 105 x 70	2
YHA 46	0.2 - 0.23	T	22	0.3	1.20	20	0.35	1.25	0 + 50	1000	1.8	HN	105 x 133.5 x 70	2
YHA 40	0.225 - 0.30	T	20	0.6	1.25	18	0.8	1.30	- 25 + 50	500	2	N	194 x 225 x 56	4.8
YHB 40	0.3 - 0.4	T	20	0.6	1.25	18	0.8	1.30	- 25 + 50	500	2	N	194 x 225 x 56	4.8
YHB 50	0.41 - 0.47	T	18	0.5	1.30					3000	10	1 5/8"	Ø 360 x 90	8
YBU 26	0.43 - 0.47	T	22	0.4	1.20	20	0.5	1.25	0 + 50	600	2	N	97 x 113 x 42	2.8
YBU 27	0.47 - 0.57	T	22	0.4	1.20	20	0.5	1.25	0 + 50	600	2	N	97 x 113 x 42	2.8
YHU 07	0.47 - 0.57	T	22	0.5	1.20	20	0.5	1.25	0 + 50	2000	4	1 5/8"	Ø 160 x 72	2.8
YBU 28	0.57 - 0.70	T	22	0.4	1.20	20	0.5	1.25	0 + 50	600	2	N	97 x 113 x 42	2.8
YHU 08	0.57 - 0.70	T	22	0.5	1.20	20	0.5	1.25	0 + 50	2000	4	1 5/8"	Ø 160 x 72	2.8
YBU 29	0.7 - 0.86	T	22	0.4	1.20	20	0.5	1.25	0 + 50	600	2	N	97 x 113 x 42	2.8
YHU 09	0.7 - 0.86	T	22	0.5	1.20	20	0.5	1.25	0 + 50	2000	4	N	Ø 160 x 72	2.8
R 2980	0.96 - 1.215	T	20	0.45	1.25	20	0.45	1.25	- 15 + 65	100	10	N	Ø 89 x 32	0.7
R 2921 A	1.2 - 1.4	100	20	0.5	1.25	20	0.5	1.25	0 + 50	1000	40	1 5/8"	Ø 170 x 100	6
R 2921 B	1.2 - 1.4	100	20	0.4	1.25	20	0.4	1.25	- 40 + 70	150	40	7/8"	106 x 92 x 65	2.5
F 30532	2.3 - 2.5	T	25	0.4	1.20	20	0.4	1.25	0 + 60	150	5	N	50 x 51 x 69	0.8
F 30511	2.4 - 2.5	T	20	0.3	1.25	20	0.3	1.25	- 10 + 40	2500	2.5	1 5/8"	106 x 70 x 83	3.8
F 30525	4.8 - 5.3	T	20	0.4	1.25	20	0.4	1.25	0 + 40	20	3	N	35 x 35 x 20	0.16

T : total T : full band

circulateurs sur guide, 3 voies 3 port, waveguide circulators

TYPE TYPE	BANDE DE FREQUENCE RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPÉRATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPÉ- RATURES TEMPÉ- RATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	GUIDE WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	Pertes INSERTION LOSSES dB	R.O.S V.S.W.R							
F 10573	2.45	50	25	0.08	1.15	20	0.15	1.20	+ 5 + 40	6000*	6	R 26	UG 553/U	191 x 180 x 134	6
F 10573 A	2.45	50	25	0.08	1.15	20	0.15	1.20	0 + 30	3000*	6	R 26	UG 553/U	191 x 180 x 94	6
AR 2941 C	2.7 - 2.9	T	20	0.4	1.20	20	0.4	1.20	- 20 + 60	700	700	R 32	CMR 284	145 x 163 x 190	4.1
AR 2941	2.7 - 3.3	200	20	0.3	1.15	20	0.3	1.20	- 10 + 60	1000	1000	R 32	UG 584/U	145 x 163 x 190	4.1
AR 2941 B	2.7 - 3.3	200	20	0.4	1.20	20	0.4	1.20	- 10 + 50	2000	1000	R 32	UG 584/U	145 x 163 x 190	4.1
AR 2941 D	2.9 - 3.1	T	20	0.4	1.20	20	0.4	1.20	- 20 + 60	700	700	R 32	CMR 284	145 x 163 x 190	4.1
TMS 35	2.9 - 3.15	T	20	0.3	1.20	20	0.3	1.20	- 10 + 65	1500	120	R 32	Spécial	180 x 170 x 102	4.5
TMS 36	3.2 - 3.45	T	20	0.3	1.20	20	0.3	1.20	- 10 + 65	1500	120	R 32	Special	180 x 170 x 102	4.5
THC 34	4.4 - 5	T	25	0.2	1.15	20	0.3	1.15	- 10 + 50	1500		R 48	UER 48	120 x 120 x 74	1.9
AR 2953	5.35 - 5.85	T	20	0.3	1.25	20	0.3	1.25	0 + 55	400	400	R 48	UG 149 A/U	130 x 140 x 175	6.6
AR 2953 A	5.35 - 5.85	T	20	0.25	1.20	18	0.3	1.30	0 + 50	1000	200	R 48	UG 149 A/U	130 x 140 x 175	7
AR 2985	5.9 - 6.4	T	25	0.3	1.10	20	0.3	1.20	- 20 + 60	300	30	R 70	CMR 137	80 x 82.6 x 50	0.5
THX 35	8.5 - 9.6	T	22	0.4	1.20	18	0.5	1.30	- 40 + 85	110	110	R 100	UG 39/U	60 x 51.8 x 41	0.19
F 10500 C	14 - 14.5	T	25	0.1	1.15	20	0.2	1.20	- 10 + 50	150*		R 120	UG 419/U	80 x 47.5 x 38	0.3
F 10580	14 - 14.5	T	25	0.1	1.15	20	0.2	1.20	- 10 + 50	600**		R 120	UG 419/U	61 x 90 x 63	0.7
THK 35	15.5 - 17	T	22	0.4	1.20	18	0.5	1.30	- 40 + 90	55	55	R 140	UG 419/U	38 x 40 x 35	0.14
R 2971	33 - 39	1000	20	0.4	1.20	20	0.4	1.20	- 40 + 70	15	10	R 320	UG 599/U	23 x 34 x 39	0.07

T : total T : full band *ct circuit - short circuited **R.O.S - 3.

circulateurs sur guide, 4 voies
4 port, waveguide circulators

TYPE TYPE	BANDE DE FREQUENCY RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C			CARACTÉRISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE			GAMME DE TEMPE- RATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	GUIDE WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg		
			DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S V.S.W.R									
			2→1 3→2 4→3 1→4	1→2 2→3 3→4 4→1		2→1 3→2 4→3 1→4	1→2 2→3 3→4 4→1										
HHX 35	8.5 - 9.6	T				18	35	0.3	0.6	1.3	-40 + 85	110	110	R 100	UG 39/U	60x106x41	0.45
HHK 35	15.5 - 17	T				18	35	0.5	1	1.3	-40 + 80	55	55	R 140	UG 419/U	38x80x35	0.3
HHK 36	15.6 - 16.3	T				20	40	0.3	0.6	1.2	-40 + 100	20	10	R 140	UG 419/U	38x75.8x35	0.3

T : total T: full band

circulateurs à déphasage différentiel, sur guide, 4 voies
4 port, phase shift waveguide circulators

TYPE TYPE	BANDE DE FREQUENCY RANGE GHz	BANDE PASSANTE BAND- WIDTH MHz	CARACTÉRISTIQUES A SPECIFICATIONS AT T = 25 °C				CARACTÉRISTIQUES DANS LA GAMME DE TEMPERATURES SPECIFICATIONS IN TEMPERATURE RANGE				GAMME DE TEMPE- RATURES TEMPERATURE RANGE °C	PUISSANCE MOYENNE MEAN POWER W	PUISSANCE CRÊTE PEAK POWER kW	GUIDE WAVE- GUIDE	BRIDE FLANGE	DIMENSIONS DIMENSIONS mm	POIDS WEIGHT kg
			DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB	R.O.S V.S.W.R	DÉCOUPLAGE ISOLATION dB	PERTES INSERTION LOSSES dB							
			Em/Rec Ant/Em			Em/Rec Ant/Em											
F 10570	2.45	50	25	23	0.2	1.15	20	20	0.25	1.20	10 + 30	50,000*	50*	R 26	UG 553/U	1125x230x235	35
R 2905 E	2.85 - 3.25	T	25	20	0.3	1.2	25	20	0.3	1.2	0 + 50	1500	1500	R 32	UG 54 A/U	215x275x876	22
DHS 32	2.9 - 3.2	T					25	25	0.4	1.2	0 + 50	3000	1000	R 32	Spécial	916x197x271	27
DHS 331	2.9 - 3.1	T					25	25	0.4	1.20	0 + 50	10,000	660	R 32	Spécial	964.5x197x112	19
R 2992	5.4 - 5.9	T	25	20	0.4	1.2	25	20	0.4	1.2	0 + 55	400	400	R 48	UG 149 A/U	130x210x500	11
R 2998	5.45 - 5.83	T	30	23	0.3	1.2	25	20	0.3	1.2	0 + 50	600	600	R 48	UG 149 A/U	113x210x600	13
R 2998 C	5.45 - 5.83	T	25	20	0.3	1.2	25	17	0.3	1.2	0 + 50	5000	600	R 48	CPR 137 G	118x190x600	15
R 2998 A	5.45 - 5.83	T	25	20	0.4	1.2	25	17	0.4	1.2	0 + 50	2200	1100	R 48	CPR 137 G	118x190x600	13
DHC 31	5.925-6.425	T	22	22	0.15	1.07	20	20	0.2	1.15	-10 + 65	3000		R 70	CPR 137 G	417.7x139x158	4.8
R 2997	5.92 - 6.42	T	30	25	0.25	1.15	25	20	0.3	1.2	0 + 60	3000	750	R 70	UG 344/U	105x160x540	12
R 2997 A	5.92 - 6.42	T	30	25	0.25	1.15	25	20	0.3	1.15	-20 + 60	2000	800	R 70	CMR 137 G	105x160x540	8
R 2997 D	5.92 - 6.42	T	30	25	0.25	1.15	25	20	0.3	1.15	-20 + 60	2000	300	R 70	CPR 137 F	100x160x540	8
R 2997 B	5.92 - 6.42	T	30	20	0.25	1.15	25	20	0.3	1.15	0 + 50	5000	200	R 70	CPR 137 G	105x138x540	12
DHX 20	8.5 - 9.6	T	22	22	0.4	1.20	20	20	0.5	1.20	-40 + 70	300	250	R 100	UG 39/U	152.5x60x54	0.52
R 2900 A	8.5 - 10.3	1000	25	20	0.4	1.2	25	20	0.5	1.2	-40 + 70	300	250	R 100	UG 39/U	54x59x175	0.52
R 2976	8.5 - 10.3	1000	25	20	0.35	1.2	25	20	0.35	1.15	0 + 50	2500	100	R 100	UG 39/U	61x75x240	2.1
F 10559	8.5 - 9.6	200	25	25	0.4	1.15	25	25	0.4	1.15	0 + 60	250	250 (1)	R 84	UG 138/U	250x60x70	0.7
DHX 22	9 - 9.6	T	22	22	0.4	1.20	20	20	0.5	1.20	-40 + 70	540	180	R 100	UG 39/U	152.5x60x53.8	0.52
R 2960	9.8 - 10.4	T	30	20	0.5	1.20	25	20	0.5	1.20	-40 + 70	300	250	R 100	UG 39/U	60x74x190	0.8
DHX 23	9.9 - 10.5	T	22	22	0.3	1.20	20	20	0.5	1.20	-30 + 60	500		R 100	UG 39/U	207.5x108x105.8	1
DHX 301	9.9 - 10.5	T					20	20	0.5	1.20	0 + 70	7000	7	R 100	UG 39/U	280x163x110	5.1
F 10536	11.7 - 12.5	T	30	25	0.25	1.15	25	20	0.3	1.20	0 + 60	1000	2	R 120	UBR 120	56x70x257	2.2
F 10535	14 - 14.5	T	30	28	0.25	1.15	30	25	0.3	1.15	0 + 80	2500	2.5	R 140	UG 419/U	90x120x230	3.2
R 2968	16 - 18	1000	25	20	0.4	1.15	25	20	0.4	1.15	-50 + 125	150	150	R 140	UG 541/U	52x52x171	0.55
AR 2939	16 - 18	1000	25	20	0.35	1.15	25	20	0.35	1.15	0 + 50	2000	75	R 140	UG 541/U	60x62x210	1.8
AR 2983	35	200	25	20	0.5	1.20	25	20	0.5	1.20	-40 + 70	50	70	R 320	UG 599/U	50x45x140	0.38
F 10562	69.5 - 70.5	T	25	20	0.7	1.25	25	20	0.7	1.25	0 + 50	10	10	R 620	UG 385/U	88x50x55	0.3

T : total T: full band *ct circuit - short circuited - (1) R.O.S = 1.6