

**ABF Elettronica**

**RF devices & Microwave Subsystems**

**AZIENDA CON SISTEMA DI QUALITÀ CERTIFICATO DA DNV  
UNI EN ISO 9001/2000**

# **DIPLEXERS FOR INDOOR APPLICATION**

## DIPLEXER 7 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [dB]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
7121-7725	161	70	≤ 20	<1	70/118	70/118	WG/WG
FREQ. RANGE [MHz]	Tx/Rx Shift [dB]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Max Amplitude Variation [dB/MHz]	Tx/Rx Isolation [dB]	Interface
7428-7680	154	84	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7107-7317	154	56	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7443-7751	168	84	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7187-7411	168	56	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7414-7736	182	84	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7107-744	196	84	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7428-7897	245	112	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7124-7875	161	70	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7140-7720	161	52	≤ 20	<2.5	0,25 in 52 MHz	65	WG/WG
7140-7720	154	52	≤ 20	<2.5	0,25 in 52 MHz	65	WG/WG

### DIELECTRIC RESONATOR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
7777-7955	148	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA
7926-8388	266	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA
7747-8251	311	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA

### INVAR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
7767-7957	148	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA
7749-8264	311	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA
8296-8478	119	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA

## DIPLEXER 8 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Max Amplitude Variation [dB]	Tx/Rx Isolation [dB]	Interface
7732.8-8281.4	294	118	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7732.8-8281.4	305	118	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7732.8-8281.4	311	118	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
8204.2-8425.8	151	70	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
8064-8454	208	98	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
7905-8402	266	119	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG
8282-8492	119	45,5	≤ 20	<2.5	0,5 dB in any 40 MHz BW	70	WG/WG

### DIELECTRIC RESONATOR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [dB]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
8293-8454	119	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA
8210-8443	151	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA

### INVAR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
7922-8384	266	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA
7749-8264	311	40	≤ 20	<1	- 56/45	+ 56/32	WG R84/SMA

## DIPLEXER 10-13 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Attenuation [dB]	Interface
10000-10700	350	140	≤ 20	<1.0	± 280/55	2F <sub>0</sub> : 40 dB	WR42
10700-11700	530	240	≤ 20	<1.2	±415/50	From 1500 to 15600: 40dB	WR42
10700-11700	490	240	≤ 20	<1.2	± 375/50	From 1500 to 15600: 40dB	WR42
12751-13255	266	126	≤ 20	<1.2	± 203/50	2F <sub>0</sub> : 20 dB	WR42
12750-13240	266	84	≤ 20	<1.5	±201/55	From 13515 to 15000: 40 dB	WR42

### DIELECTRIC RESONATOR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
10735-11665	490	40	≤ 20	<1.8	± 60/45	± 80/55	UBR120
12765-13227	266	28	≤ 20	<2	± 42/35	± 56/50	UBR120
12765-13227	266	56	≤ 20	<2	± 86/35	± 112/50	UBR120

## DIPLEXER 15 GHz CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Attenuation [dB]	Interface
13434-15498	336	140	≤ 20	<1.2	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
17573-19833	1560	700	≤ 20	<1.3	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
13976-15880	644	130	≤ 20	<1.0	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
14032-15719	490	130	≤ 20	<1.0	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
14195-15655	420	130	≤ 20	<1.0	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
13917-15932	714	130	≤ 20	<1.0	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
13892-15957	728	130	≤ 20	<1.0	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
14389-15464	315	90	≤ 20	<1.2	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
14385-15479	322	90	≤ 20	<1.2	± 362/55	From 18860 to 19860 MHz >40 dB	WR62
14516-15230	490	235	≤ 19	<0.7	± 370/70		WR62
14698-15142	317	180	≤ 18	<1.2	± 246/70		WR62
14498-15352	640	261	≤ 19	<1.0	± 533/70		WR62
14485-15371	420	196	≤ 20	<1	± 322/55	From 28950 to 30750 MHz >30 dB	WR62
14387-15371	490	214	≤ 20	<1	± 383/55	From 28750 to 30750 MHz >30 dB	WR62
14611-15245	322	144	≤ 20	<1	± 250/55	From 29200 to 30500 MHz >30 dB	WR62
14592-15250	336	130	≤ 20	<1	± 271/55	From 29150 to 30500 MHz >30 dB	WR62

## DIELECTRIC RESONATOR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
15	728	28	≤ 20	<2	± 42/35	± 56/50	WR62

## DIPLEXER 18 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
17677-19713	1010	547	≤ 18	<0.5		WR42
17677-19723	1560	486	≤ 18	<0.5		WR42
18557-19183	340	166	≤ 18	<0.8		WR42
17835-18735	750	150	≤ 20	<1.3	± 675/55	WR42
17961-18966	1005	700	≤ 20	<1.3	± 740/50	WR42
18431-19431	1000	700	≤ 20	<1.3	± 731/50	WR42
17923-19483	1560	700	≤ 20	<1.3	± 1303/50	WR42
18575-19165	340	142	≤ 20	<1.5	± 269/55	WR42

### DIELECTRIC RESONATOR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
18	1010	52	≤ 20	<2	±84 MHz/45	±110 MHz/55	WR42

## DIPLEXER 23 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Isolation Tx/Rx [dB]	Interface
21950-23650	1000	600	≤ 20	<0.7	± 700 MHz/50	65	WR42
21975-23626	1008	350	≤ 20	<1.0			WR42
21173-23627	1200	670	≤ 20	<0.7			WR42
21173-23627	1232	670	≤ 20	<0.7			WR42
21200-23600	1200	660	≤ 20	<0.7		65	WR42
21336-23464	1008	90	≤ 20	<1.4	± 740/50	65	WR42
21336-23464	1200	90	≤ 20	<1.4	± 740/50	65	WR42
21336-23464	1232	90	≤ 20	<1.4	± 740/50	65	WR42

### INVAR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
22400-23600	600	38	≤ 26	<1.3	± 70/46	WR42

## DIPLEXER 25 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface
24547-26455	1008	452	≤ 16	<1.0	65	WR42

### INVAR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F0 ± Delta [MHz/dB]	Interface
24500-25500	500	38	≤ 26	<1.8	± 70/46	WR42

## DIPLEXER 26-28 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface
24516-26486	1008	540	≤ 17	<1.1	50	UBR220
24400-24600	1008	250	≤ 17	<1.0	60	UBR220
27516-29486	1008	540	≤ 17	<1.1	50	UBR320
27516-29486	1008	513	≤ 17	<1.1	50	UBR320
28044-29358	1008	175	≤ 17	<1.2	65	UBR320
27516-29485	1008	513	≤ 17	<1.1		UBR320

## DIPLEXER 38 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Isolation Tx/Rx [dB]	Interface
37000-39550	1260	663	≤ 16	<1.2	70		WG
37000-39500	1260	400	≤ 20	<1.3		65	
38600-40000	700	354	≤ 16	<2			WG
37058-39438	1260	900	≤ 17	<1.2	±966/>50		WR28/UBR320
37243-39207	1260	6060	≤ 20	<1.3	±300/>65		WR28/UBR320

### INVAR TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Att @ F <sub>0</sub> ± Delta [MHz/dB]	Interface
37025-38925	1260	640	≤ 20	<1.2	±975/48	WR28/UBR320
37600-39512	1246	666	≤ 20	<1.2	±975/48	WR28/UBR320

## DIPLEXER 80 GHz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface
71000-86000	10000	5000	≤ 16	<0,5	50	WR12
71000-74750	2500	1250	≤ 16	<2,0	55	WR12
72250-76000	2500	1250	≤ 16	<2,0	55	WR12
81000-84750	2500	1250	≤ 16	<2,0	55	WR12
82250-86000	2500	1250	≤ 16	<2,0	55	WR12

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# **DIPLEXERS FOR OUTDOOR APPLICATION**

## Outdoor Diplexer 6 Ghz

### CAVITY TECHNOLOGY

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/Coax
6050-6420	252	120	$\leq 18$	<1,2	70,5	WR137/SMP
6034-6434	252	120	$\leq 18$	<1,2	70,5	WR137/SMP
5930-6300	252	120	$\leq 18$	<1,2	70,5	WR137/SMP
5915-6286	252	120	$\leq 18$	<1,2	70,5	WR137/SMP
6580-7100	340	180	$\leq 18$	<1,4	70,5	WR137/SMP
6420-6940	340	180	$\leq 18$	<1,4	70,5	WR137/SMP
6440-6770	100	30	$\leq 18$	<1,4	70,5	WR137/SMP
6610-6740	100	30	$\leq 18$	<1,4	70,5	WR137/SMP
6580-6710	100	30	$\leq 18$	<1,4	70,5	WR137/SMP
6540-6792,5	170	92,5	$\leq 18$	<1,4	61,5	WR137/SMP
6630-6870	160	80	$\leq 18$	<1,4	61,5	WR137/SMP

## Outdoor Diplexer 7 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/Coax
7235-7480	161	84	$\leq 18$	<1,6	69,5	WR112/SMP
7277-7522	161	84	$\leq 18$	<1,6	69,5	WR112/SMP
7319-7564	161	84	$\leq 18$	<1,6	69,5	WR112/SMP
7191-7439	161	87	$\leq 18$	<1,6	69,5	WR112/SMP
7156-7402	161	84	$\leq 18$	<1,6	69,5	WR112/SMP
7110-7359	161	88	$\leq 18$	<1,6	69,5	WR112/SMP
7163-7443	196	84	$\leq 18$	<1,6	69,5	WR112/SMP
7107-7387	196	84	$\leq 18$	<1,6	69,5	WR112/SMP
7499-7751	196	84	$\leq 18$	<1,6	69,5	WR112/SMP
7491-7739	161	87	$\leq 18$	<1,6	69,5	WR112/SMP
7456-7701	161	87	$\leq 18$	<1,6	69,5	WR112/SMP
7414-7659	161	84	$\leq 18$	<1,6	69,5	WR112/SMP
7540-7897	245	112	$\leq 18$	<1,2	69,5	WR112/SMP
7428-7785	245	112	$\leq 18$	<1,2	69,5	WR112/SMP
7275-7725	300	150	$\leq 18$	<1,2	69,5	WR112/SMP
7125-7585	300	160	$\leq 18$	<1,2	69,5	WR112/SMP
7115-7415	270	30	$\leq 18$	<1,2	69,5	WR112/SMP
7263-7480	161	56	$\leq 18$	<2,0	69,5	WR112/SMP
7319-7536	161	56	$\leq 18$	<2,0	69,5	WR112/SMP

## Outdoor Diplexer

## 8 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/Coax
7821-8281	310	161	≤ 18	<1,5	69,5	WR112/SMP
7718-8163	307	133	≤ 18	<1,5	69,5	WR112/SMP
7718-8163	266	119	≤ 18	<1,5	69,5	WR112/SMP
7905-8293	266	122	≤ 18	<1,5	69,5	WR112/SMP
8045-8495	310	140	≤ 18	<1,5	69,5	WR112/SMP
7905-8355	310	140	≤ 18	<1,5	69,5	WR112/SMP
8279-8443	119	42	≤ 18	<1,6	69,5	WR112/SMP
8289-8461	126	46	≤ 18	<1,6	69,5	WR112/SMP
8314-8482	126	42	≤ 18	<1,6	69,5	WR112/SMP
8331-8496	123	46	≤ 18	<1,6	69,5	WR112/SMP
8196-8399	151	51	≤ 18	<1,6	69,5	WR112/SMP
8231-8441	151	56	≤ 18	<1,6	69,5	WR112/SMP
8259-8469	154	58	≤ 18	<1,6	69,5	WR112/SMP
8301-8504	151	51	≤ 18	<1,6	69,5	WR112/SMP

## Outdoor Diplexer 10 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/Coax
10003-10504	350	151	≤ 18	<1,5	69,5	WR90/SMP
10147-10650	350	153	≤ 18	<1,5	69,5	WR90/SMP

## Outdoor Diplexer 11 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/Coax
10935-11705	530	240	≤ 18	<1,5	68,5	WR90/SMP
10715-11485	490	240	≤ 18	<1,5	68,5	WR90/SMP
10710-11440	490	240	≤ 18	<1,5	68,5	WR90/SMP
10695-11465	530	240	≤ 18	<1,5	68,5	WR90/SMP
10700-11430	500	240	≤ 18	<1,5	68,5	WR90/SMP
10835-11565	490	240	≤ 18	<1,5	68,5	WR90/SMP
10970-11700	490	230	≤ 18	<1,5	68,5	WR90/SMP

## Outdoor Diplexer 13 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
12835-13243	266	142	≤ 16	<1,6	59	WR75/WR62
12751-13157	266	140	≤ 16	<1,6	59	WR75/WR62

## Outdoor Diplexer 15 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
14655-15348	448	273	≤ 16	<1,5	59	WR62/WR62
14501-15166	420	245	≤ 16	<1,5	59	WR62/WR62
14403-15180	490	287	≤ 16	<1,5	59	WR62/WR62
14501-15348	644	196	≤ 16	<1,2	59	WR62/WR62
14739-15222	315	168	≤ 16	<1,2	59	WR62/WR62
14627-15110	315	168	≤ 16	<1,6	59	WR62/WR62

## Outdoor Diplexer 18 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
18167-19700	1010	523	≤ 16	<1,5	62,5	WR42/WR42
17700-19230	1010	521	≤ 16	<1,5	62,5	WR42/WR42
18099-19686	1092	495	≤ 16	<1,5	62,5	WR42/WR42
17714-19301	1092	495	≤ 16	<1,5	62,5	WR42/WR42
17700-19700	1560	440	≤ 16	<1,5	62,5	WR42/WR42

## Outdoor Diplexer 23 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
21763-23576	1232	581	≤ 16	<1,5	64	WR42/WR42
21200-23016	1200	600	≤ 16	<1,5	64	WR42/WR42
21800-23600	1200	600	≤ 16	<1,5	64	WR42/WR42
22003-23011	1008	588	≤ 16	<1,5	64	WR42/WR42

## Outdoor Diplexer 26 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
24969-26453	1008	476	≤ 16	<1,6	63,5	WR42/WR42
24549-26012	1008	455	≤ 16	<1,6	63,5	WR42/WR42
24250-25350	800	300	≤ 16	<1,6	63,5	WR42/WR42

## Outdoor Diplexer 28 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
27968-29452	1008	476	≤ 16	<1,7	62,5	WR28/WR28
27548-28556	1008	455	≤ 16	<1,7	62,5	WR28/WR28

## Outdoor Diplexer 32 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
32189-33383	812	382	$\leq 16$	<1,7	61,5	WR28/WR28
31815-33040	812	413	$\leq 16$	<1,7	61,5	WR28/WR28

## Outdoor Diplexer 38 Ghz

FREQ. RANGE [MHz]	Tx/Rx Shift [MHz]	B.W. [MHz]	R.L. [dB]	I.L. [dB]	Isolation Tx/Rx [dB]	Interface WG/WG
37618-39438	1260	560	$\leq 16$	<1,5	61,5	WR28/WR28
37058-38878	1260	560	$\leq 16$	<1,5	61,5	WR28/WR28
39050-40000	700	250	$\leq 16$	<2,3	61,5	WR28/WR28
38800-39750	700	250	$\leq 16$	<2,3	61,5	WR28/WR28
38600-39525	700	225	$\leq 16$	<2,3	61,5	WR28/WR28