

SAW Filter & Resonator Circulator & Isolator MEMS Filter

Selection Guide

2015 Version



Contents

▶ SAW Filter & Resonator

SAW Filter.....	4
SAW Resonator	6

▶ RF Circulator & Isolator

Coaxial Series.....	7
Strip Line Series	8
Waveguide Series.....	9
Broadband Series.....	10

▶ MEMS Filters

MEMS Bandpass Filter.....	11
MEMS Bandstop Filter	13
MEMS Lowpass Filter	13
MEMS Attenuator Chip	14
MEMS Time-Delay Line.....	14
MEMS SIW Filter	15
MEMS Micro-Shielding Filter.....	15

Introduction

NEDITEK is also engaged in the R&D and manufacture of RF passive device such as SAW filter, SAW resonator, circulator, isolator and MEMS devices.

Actually the frequency of our SAW filter covers from 30MHz to 2.6GHz, and the resonator's frequency is ranged from 50MHz to 1.5GHz. The minimum package dimension could be reached to 1.1x0.9mm. They can be widely used in signal processing, frequency selection and control in audio-video, communication and remote control system. All products are available for customer design.

NEDITEK's circulator and isolator products cover frequencies from 100MHz to 100GHz. Our products are desirable to customers for their small size, modern technological design, high performance and superior quality.

At present, we could supply many series of MEMS product, including bandpass filter, SIW filter, micro-shielding filter, band stop filter, how pass filter, attenuator chip, time-delay line. With the feature of great performance, high reliability, small size and easy integration, all the products could be developed according to customer's requirement.



SAW Filter

Item No.	Fc(MHz)	BW (MHz)	IL(dB)	Package Type
NDSF02241	110	0.3	3.5	ARC11A
NDSF02003	110.592	1.152	3.5	QCC8C
NDSF02242	110.592	0.3	3.5	ARC11B
NDSF02010	130.38	±0.63 min.	5.5 max.	DCC6
NDSF02005	155	8.0	6.5	QCC8C
NDSF02074	159	9.8	2	QCC8C
NDSF02006	163	8.0	6.5	QCC8C
NDSF03025	315	4.6	1.5	QCC8B
NDSF00420	315	0.6	3.0	QCC8C
NDSF04071	424	4.0	3.2	DCC6
NDSF04001	426	4.0	3.0	QCC8C
NDSF05504	433.42	3	0.6	QCC8C
NDSF04003	433.92	0.73	2.0	QCC8C
NDSF04011	433.92	4	4.5 max.	DCC6
NDSF04096	433.92	7.2	2.0	DCC6C
NDSF00533	433.92	4.0	3.0	QCC8C
NDSF00550	433.92	0.6	3.5	QCC8C
NDSF04015	446	4.0	3.0	QCC8C
NDSF04080	446	4.0	2.5	DCC6
NDSF04039	447	4.0	3.0	DCC6
NDSF04038	447.7	4.0	3.0	DCC6
NDSF04060	448	4.0	3.0	QCC8C
NDSF04050	455	5.0	2.1	DCC6
NDSF08096	806	30	2	DCC6C
NDSF08075	813.5	15	1.8	DCC6C
NDSF08310	815	18	1.8	DCC6C
NDSF08010	836.5	25	2.7	DCC6C
NDSF08086	847	30	2	DCC6C
NDSF08076	858.5	15	2.8	DCC6C
NDSF00964	868.3	1.2	3.5	QCC8C
NDSF08021	868.35	3.5	1.8	QCC8B
NDSF08030	869	18.5	3	DCC6C
NDSF08034	869	12	2	DCC6C
NDSF08011	881.5	25	2.7	DCC6C
NDSF08065	892	24	2	DCC6C
NDSF08050	897.5	35.0	2.0	DCC6C
NDSF08156	897.5	35	2	DCC6C
NDSF09022	900	30	2.7	DCC6

Item No.	Fc(MHz)	BW (MHz)	IL(dB)	Package Type
NDSF09299	902.5	25	2.2	DCC6C
NDSF09059	930.5	4.0	4.5Max	DCC6
NDSF08066	942	24	3	DCC6C
NDSF09199	942.5	25	2	DCC6C
NDSF09023	945	30	2.7	DCC6
NDSF09038	947.5	30	2.7	DCC6C
NDSF09296	947.5	25	2.2	DCC6C
NDSF09019	1090	12.0	4.0	QCC8B
NDSF09015	1575.42	2.4	1.6	DCC6C
NDSF09131	1742.5	65	3	DCC6C
NDSF09081	1747.5	75	3.5	DCC6C
NDSF09117	1747.5	75	2.5	DCC6C
NDSF09159	1755	60	1.8	DCC6C
NDSF09390	1757.5	45	1.7	DCC6C
NDSF09027	1842.5	75	3.5	DCC6C
NDSF09191	1882.5	60	2	DCC6C
NDSF09146	1900	40	1.8	DCC6C
NDSF09153	1947.5	15	3.8	DCC6C
NDSF09124	1950	60	2.5	DCC6C
NDSF09226	1950	60	3	DCC6C
NDSF09385	1965	70	2	DCC6C
NDSF09140	2017	15	3.4	DCC6C
NDSF09137	2140	60	1.8	DCC6C
NDSF09205	2345	50	2.6	DCC6C
NDSF09376	2345	50	2.6	DCC6C
NDSF09272	2442	83.5	1.8	DCC6C
NDSF09201	2535	70	1.8	DCC6C
NDSF09202	2595	40	1.6	DCC6C
NDSF09400	2612	15	2.5	DCC6C

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SAW Resonator

Item No.	Fc	IL	Package Type
NDSR00015	915	1.8	QCC8C
NDSR00025	925	2.4	QCC8C
NDSR02002	295	1.5	QCC8C
NDSR03001	315	1.3	QCC4A
NDSR03003	345	1.5	QCC4A
NDSR03008	303.825	1.2	QCC4A
NDSR03010	318	1.2	QCC4A
NDSR03015	303.875	1.6	QCC4A
NDSR03024	319.5	1.3	QCC4A
NDSR03025	311.0625	1.3	QCC8C
NDSR03028	315	1.5	DCC6C
NDSR03037	315	1.3	DCC6
NDSR03045	315.5	1.6	QCC4A
NDSR03049	370	1.2	QCC8C
NDSR03105	313.5	1.3	QCC8C
NDSR03120	370	1.2	QCC4A
NDSR04001	433.92	1.6	DCC6C
NDSR04003	433.92	1.5	QCC4A
NDSR04007	418	1.2	QCC4A
NDSR04009	433.92	1.5	QCC8B
NDSR04012	433.92	1.6	QCC8C
NDSR04048	418	1.8	DCC6C
NDSR04100	310	1.3	QCC8C
NDSR04107	433.92	1.3	DCC6C
NDSR04111	311	1.5	QCC8C
NDSR00420	315	1.4	QCC8C
NDSR00422	318	1.5	QCC8C
NDSR00510	403.55	1.3	QCC8C
NDSR00520	423.22	1.6	QCC8C
NDSR00530	418	1.6	QCC8C
NDSR00540	433.42	1.5	QCC8C
NDSR00550	433.92	1.4	QCC8C

RF Circulator & Isolator

Coaxial Series

Item No.	Frequency (GHz)	Relative Bandwidth	IL (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. (°C)	Load Power (W)	Connector Type
NDIS01001	0.14-0.24	5%	0.6	18	1.3	0~+60	10	SMA/N
NDIS01002	0.14-0.24	5%	0.6	18	1.3	0~+60	100	SMA/N
NDCI01003	0.14-0.24	5%	0.6	18	1.3	0~+60	-	SMA/N
NDIS01004	0.20-0.30	10%	0.5	18	1.3	0~+60	10	SMA/N
NDIS01005	0.20-0.30	10%	0.5	18	1.3	0~+60	100	SMA/N
NDCI01006	0.20-0.30	10%	0.5	18	1.3	0~+60	-	SMA/N
NDIS01007	0.25-0.45	10%	0.4	20	1.25	-15~+60	10	SMA/N
NDIS01008	0.25-0.45	10%	0.4	20	1.25	-15~+60	100	SMA/N
NDCI01009	0.25-0.45	10%	0.4	20	1.25	-15~+60	-	SMA/N
NDIS01010	0.40-0.60	10%	0.4	20	1.25	-15~+60	10	SMA/N
NDIS01011	0.40-0.60	10%	0.4	20	1.25	-15~+60	100	SMA/N
NDCI01012	0.40-0.60	10%	0.4	20	1.25	-15~+60	-	SMA/N
NDIS01013	0.50-1.00	10%	0.4	23	1.2	-30~+70	10	SMA/N
NDIS01014	0.50-1.00	10%	0.4	23	1.2	-30~+70	100	SMA/N
NDCI01015	0.50-1.00	10%	0.4	23	1.2	-30~+70	-	SMA/N
NDIS01016	0.80-1.40	10%	0.4	23	1.2	-40~+85	10	SMA/N
NDIS01017	0.80-1.40	10%	0.4	23	1.2	-40~+85	100	SMA/N
NDCI01018	0.80-1.40	10%	0.4	23	1.2	-40~+85	-	SMA/N
NDIS01019	1.2-2.5	10%	0.4	23	1.2	-40~+85	10	SMA/N
NDIS01020	1.2-2.5	10%	0.4	23	1.2	-40~+85	100	SMA/N
NDCI01021	1.2-2.5	10%	0.4	23	1.2	-40~+85	-	SMA/N
NDIS01022	2.0-4.0	10%	0.4	23	1.2	-30~+70	10	SMA/N
NDCI01023	2.0-4.0	10%	0.4	23	1.2	-30~+70	-	SMA/N
NDIS01024	3.5-8.0	10%	0.4	23	1.2	-40~+70	10	SMA/N
NDCI01025	3.5-8.0	10%	0.4	23	1.2	-40~+70	-	SMA/N
NDIS01026	7.0-20.0	10%	0.4	20	1.25	-40~+70	5	SMA/N
NDCI01027	7.0-20.0	10%	0.4	20	1.25	-40~+70	-	SMA/N
NDIS01028	18.0-24.5	10%	0.6	18	1.35	-40~+70	2	SMA/N
NDCI01029	18.0-24.5	10%	0.6	18	1.35	-40~+70	-	SMA/N

RF Circulator & Isolator

Strip Line Series

NDIS02001	0.14-0.24	5%	0.6	18	1.3	0~+60	100	TAB
NDCI02002	0.14-0.24	5%	0.6	18	1.3	0~+60	-	TAB
NDIS02003	0.20-0.40	10%	0.5	18	1.3	0~+60	100	TAB
NDCI02004	0.20-0.40	10%	0.5	18	1.3	0~+60	-	TAB
NDIS02005	0.35-0.55	10%	0.4	20	1.25	-15~+60	10	TAB
NDIS02006	0.35-0.55	10%	0.4	20	1.25	-15~+60	100	TAB
NDCI02007	0.35-0.55	10%	0.4	20	1.25	-15~+60	-	TAB
NDIS02008	0.5-1.0	10%	0.4	23	1.2	-30~+70	10	TAB
NDIS02009	0.5-1.0	10%	0.4	23	1.2	-30~+70	100	TAB
NDCI02010	0.5-1.0	10%	0.4	23	1.2	-30~+70	-	TAB
NDIS02011	0.8-2.2	5%	0.4	23	1.2	-40~+85	10	TAB
NDIS02012	0.8-2.2	5%	0.4	23	1.2	-40~+85	100	TAB
NDCI02013	0.8-2.2	5%	0.4	23	1.2	-40~+85	-	TAB
NDIS02014	0.8-2.2	10%	0.3	23	1.2	-40~+85	10	TAB
NDCI02015	0.8-2.2	10%	0.3	23	1.2	-40~+85	-	TAB
NDIS02016	0.8-2.2	10%	0.3	23	1.2	-40~+85	100	TAB
NDCI02017	0.8-2.2	10%	0.3	23	1.2	-40~+85	-	TAB
NDIS02018	1.2-3.8	5%	0.4	23	1.2	-40~+85	10	TAB
NDIS02019	1.2-3.8	5%	0.4	23	1.2	-40~+85	100	TAB
NDCI02020	1.2-3.8	5%	0.4	23	1.2	-40~+85	-	TAB
NDIS02021	3.0-7.0	5%	0.4	20	1.25	-40~+70	5	TAB
NDCI02022	3.0-7.0	5%	0.4	20	1.25	-40~+70	-	TAB
NDIS02023	3.5-8.0	10%	0.4	23	1.2	-40~+70	10	TAB
NDCI02024	3.5-8.0	10%	0.4	23	1.2	-40~+70	-	TAB
NDIS02025	7-8	10%	0.4	20	1.25	-40~+70	5	TAB
NDCI02026	7-8	10%	0.4	20	1.25	-40~+70	-	TAB
NDIS02027	18-24.5	10%	0.6	18	1.35	-40~+70	2	TAB
NDCI02028	18-24.5	10%	0.6	18	1.35	-40~+70	-	TAB

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RF Circulator & Isolator

Waveguide Series

Item No.	Frequency (GHz)	Relative Bandwidth	IL (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. (°C)	Connector Type
NDIS03001	5.38-8.18	10%	0.3	23	1.2	-40~+85	WR137
NDCI03002	5.38-8.18	10%	0.3	23	1.2	-40~+85	WR137
NDIS03003	6.58-10.0	10%	0.3	23	1.2	-40~+85	WR112
NDCI03004	6.58-10.0	10%	0.3	23	1.2	-40~+85	WR112
NDIS03005	8.20-12.5	3%	0.3	25	1.2	-40~+85	WR90
NDIS03006	8.20-12.5	10%	0.3	23	1.2	-40~+85	WR90
NDCI03007	8.20-12.5	10%	0.3	23	1.2	-40~+85	WR90
NDIS03008	9.48-15.0	5%	0.3	20	1.2	-40~+85	WR75
NDIS03009	9.48-15.0	10%	0.3	23	1.2	-40~+85	WR75
NDCI03010	9.48-15.0	10%	0.3	23	1.2	-40~+85	WR75
NDIS03011	11.9-18.0	5%	0.3	23	1.2	-40~+85	WR62
NDIS03012	11.9-18.0	10%	0.3	23	1.2	-40~+85	WR62
NDCI03013	11.9-18.0	10%	0.3	23	1.2	-40~+85	WR62
NDIS03014	14.5-22.0	10%	0.3	20	1.2	-40~+85	WR51
NDCI03015	14.5-22.0	10%	0.3	20	1.2	-40~+85	WR51
NDIS03016	17.6-26.7	10%	0.4	18	1.3	-40~+85	WR42
NDIS03017	17.6-26.7	10%	0.4	20	1.2	-40~+85	WR42
NDCI03018	17.6-26.7	10%	0.4	20	1.2	-40~+85	WR42
NDIS03019	21.7-33.0	8%	0.4	20	1.2	-40~+85	WR34
NDCI03020	21.7-33.0	8%	0.4	20	1.2	-40~+85	WR34
NDIS03021	26.4-40.1	5%	0.4	20	1.25	-40~+85	WR28
NDIS03022	26.4-40.1	8%	0.4	20	1.25	-40~+85	WR28
NDCI03023	26.4-40.1	5%	0.4	20	1.25	-40~+85	WR28
NDCI03024	26.4-40.1	5%	0.4	20	1.25	-40~+85	WR28
NDIS03025	33.0-50.1	5%	0.4	20	1.25	-40~+85	WR22
NDCI03026	33.0-50.1	5%	0.4	20	1.25	-40~+85	WR22
NDIS03027	39.3-59.7	4%	0.4	20	1.25	-40~+85	WR19
NDCI03028	39.3-59.7	4%	0.4	20	1.25	-40~+85	WR19
NDIS03029	60.5-92.0	1%	0.8	18	1.3	-40~+85	WR12
NDCI03030	60.5-92.0	1%	0.8	18	1.3	-40~+85	WR12
NDIS03031	73.8-112	2%	1	18	1.3	-40~+85	WR10
NDCI03032	73.8-112	2%	1	18	1.3	-40~+85	WR10

RF Circulator & Isolator

Broadband Series

Item No.	Frequency (GHz)	IL (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. (°C)	Load Power (W)	Connector Type
NDIS09001	1-2	0.7	16	1.4	0~+60	10	SMA/N
NDCI09002	1-2	0.7	16	1.4	0~+60	-	SMA/N
NDIS09003	1.35-2.7	0.6	17	1.35	0~+60	10	SMA
NDCI09004	1.35-2.7	0.6	17	1.35	0~+60	-	SMA
NDIS09005	2-4	0.6	18	1.4	-30~+70	10	SMA/N
NDIS09006	2-4	0.6	18	1.4	-30~+70	10	TAB
NDCI09007	2-4	0.6	16	1.4	-30~+70	-	SMA/N
NDCI09008	2-4	0.6	16	1.4	-30~+70	-	TAB
NDIS09009	2-6	1.2	15	1.5	0~+60	10	SMA/N
NDIS09010	2-8	1.5	12	1.8	0~+60	10	SMA/N
NDIS09011	3-6	0.6	17	1.4	-30~+70	10	SMA
NDCI09012	3-6	0.6	16	1.4	-30~+70	-	SMA
NDIS09013	4-8	0.6	18	1.3	-30~+70	10	SMA
NDIS09014	4-8	0.6	14	1.5	-30~+70	10	TAB
NDCI09015	4-8	0.6	18	1.3	-30~+70	-	SMA
NDIS09016	5-10	0.6	18	1.3	-30~+70	10	SMA
NDCI09017	5-10	0.6	18	1.3	-30~+70	-	SMA
NDIS09018	6-12	0.6	18	1.4	-40~+70	5	SMA
NDCI09019	6-12	0.6	16	1.4	-40~+70	-	SMA
NDIS09020	8-12	0.5	20	1.25	-40~+70	5	SMA
NDIS09021	8-12	0.6	18	1.3	-40~+70	5	TAB
NDCI09022	8-12	0.5	20	1.25	-40~+70	-	SMA
NDIS09023	10-15	0.5	20	1.25	-40~+70	5	SMA
NDIS09024	10-15	0.6	18	1.3	-40~+70	5	TAB
NDCI09025	10-15	0.5	20	1.25	-40~+70	-	SMA
NDIS09026	12-18	0.6	18	1.35	-40~+70	5	SMA
NDIS09027	12-18	0.6	17	1.4	-40~+70	5	TAB
NDCI09028	12-18	0.6	18	1.35	-40~+70	-	SMA
NDIS09029	8-18	0.8	17	1.4	-40~+70	5	SMA
NDCI09030	8-18	0.8	16	1.5	-40~+70	-	SMA
NDIS09031	6-18	1.5	11	1.9	-40~+70	5	SMA
NDCI09032	6-18	1.5	10	1.9	-40~+70	-	SMA

MEMS Bandpass Filter

Item No.	Frequency (GHz)	Insertion Loss (dB)	Attenuation	Case Size (mm)
NDMF01001	2-4	2.2	≥ 26dB @ 1.0&5.0 GHz	5.4x9.8x0.4
NDMF01002	2.5-3.8	1.3	≥ 26dB @ 1.9&4.2 GHz	7.6x9.0x0.4
NDMF01003	2.6-6.0	1.6	≥ 37dB @ 1.4&5.0 GHz	7.5x9.0x0.4
NDMF01004	2.8-4.0	2.2	≥ 25dB @ 2.3&4.5 GHz	9.0x9.2x0.4
NDMF01005	3.0-4.0	2.2	≥ 27 dB @ 2.5&4.5 GHz	9.4x8.6x0.4
NDMF01006	3.2-4.4	1.7	≥ 43 dB @ 2.0&5.6 GHz	9.3x8.0x0.4
NDMF01007	3.3-4.7	1.3	≥ 28 dB @ 2.5&5.5 GHz	8.4x7.6x0.4
NDMF01008	3.5-6.4	2.0	≥ 38 dB @ 2.4&7.4 GHz	8.1x6.8x0.4
NDMF01009	3.7-5.1	1.1	≥ 44 dB @ 2.0&7.0 GHz	7.4x6.8x0.4
NDMF01010	3.9-6.2	1.2	≥ 39 dB @ 2.7&7.2 GHz	7.8x6.6x0.4
NDMF01011	4.0-6.2	1.2	≥ 32 dB @ 3.0&7.0 GHz	8.9x6.6x0.4
NDMF01012	4.5-6.0	1.0	≥ 30 dB @ 3.0&7.5 GHz	7.4x6.2x0.4
NDMF01013	4.6-5.0	1.9	≥ 31 dB @ 4.2&5.7 GHz	9.4x9.2x0.4
NDMF01014	4.7-8.1	1.3	≥ 35 dB @ 3.5&9.1 GHz	8.0x5.4x0.4
NDMF01015	4.8-5.6	1.4	≥ 31 dB @ 4.0&6.2 GHz	7.6x6.4x0.4
NDMF01016	4.875-6.75	1.7	≥ 26 dB @ 3.7&7.2 GHz	9.5x5.8x0.4
NDMF01017	5.0-9.0	1.7	≥ 40 dB @ 3.5&10.0 GHz	8.9x5.0x0.4
NDMF01018	5.1-5.7	1.5	≥ 30 dB @ 4.4&6.1GHz	8.5x6.1x0.4
NDMF01019	5.2-5.9	1.3	≥ 27 dB @ 4.5&6.4 GHz	6.9x5.9x0.4
NDMF01020	5.5-8.0	1.1	≥ 24 dB @ 4.8&9.0 GHz	10.0x5.0x0.4
NDMF01021	5.6-9.4	1.4	≥ 43 dB @ 4.0&11.0 GHz	8.1x4.6x0.4
NDMF01022	5.8-8.0	1.4	≥ 43 dB @ 4.6&9.0 GHz	9.0x5.4x0.4
NDMF01023	5.9-9.1	1.1	≥ 43 dB @ 4.2&10.5 GHz	9.7x4.6x0.4
NDMF01024	6.0-11.0	1.5	≥ 42 dB @ 4.0&12.6 GHz	8.6x4.0x0.4
NDMF01025	6.2-7.0	1.9	≥ 22 dB @ 5.6&7.4 GHz	8.6x5.4x0.4
NDMF01026	6.4-6.8	1.4	≥ 27 dB @ 5.8&7.2 GHz	9.7x6.2x0.4
NDMF01027	6.5-9.0	1.7	≥ 44 dB @ 5.5&10.0 GHz	9.2x5.2x0.4
NDMF01028	6.8-8.0	2.1	≥ 52 dB @ 5.6&9.2 GHz	10.3x5.2x0.4
NDMF01029	6.9-11.1	1.6	≥ 33 dB @ 5.5&12.1 GHz	8.0x4.0x0.4
NDMF01030	7.0-11.0	1.7	≥ 30 dB @ 5.5&12.1 GHz	8.1x4.0x0.4
NDMF01031	7.2-8.8	1.3	≥ 45 dB @ 6.2&9.8 GHz	8.45x4.7x0.4
NDMF01032	7.5-8.8	1.8	≥ 47 dB @ 6.5&9.8 GHz	9.1x4.7x0.4
NDMF01033	7.6-13.9	0.8	≥ 30 dB @ 5.6&17.8 GHz	5.9x3.4 x0.4
NDMF01034	7.75-10.75	1.0	≥ 40 dB @ 6.0&12.0 GHz	10.2x3.7x0.4
NDMF01035	7.8-10.0	1.2	≥ 50 dB @ 6.4&11.0 GHz	9.7x4.5x0.4
NDMF01036	7.9-9.1	1.5	≥ 45 dB @ 6.7&10.0 GHz	8.7x4.6x0.4
NDMF01037	8.0-18.0	0.9	≥ 25 dB @ 4.0&20.0 GHz	10.2x3.0x0.4
NDMF01038	8.2-9.8	1.7	≥ 21 dB @ 7.7&10.2 GHz	11.0x4.6x0.4
NDMF01039	8.3-9.7	1.1	≥ 53 dB @ 6.4&11.2 GHz	8.0x4.5x0.4
NDMF01040	8.4-10.5	1.3	≥ 50 dB @ 7.1&11.5 GHz	10.1x4.4x0.4
NDMF01041	8.5-12.0	1.5	≥ 22 dB @ 7.7&13.0 GHz	9.5x3.4x0.4
NDMF01042	8.6-13.4	1.7	≥ 37 dB @ 7.0&15.0 GHz	8.8x3.2x0.4

Item No.	Frequency (GHz)	Insertion Loss (dB)	Attenuation	Case Size (mm)
NDMF01043	8.7-12.3	1.1	≥ 44 dB @ 7.5&11.1 GHz	8.3x4.4x0.4
NDMF01044	8.8-10.9	1.4	≥ 40 dB @ 7.8&11.5 GHz	11.0x4.6x0.4
NDMF01045	8.9-10.1	1.5	≥ 48 dB @ 7.7&11.0 GHz	8.9x4.4x0.4
NDMF01046	9.2-10.8	1.5	≥ 50 dB @ 7.7&12.3 GHz	8.0x4.3x0.4
NDMF01047	9.3-10.8	1.5	≥ 50 dB @ 7.7&12.3 GHz	8.4x4.2x0.4
NDMF01048	9.5-12.0	1.3	≥ 31 dB @ 8.5&13.0 GHz	10.0x4.5x0.4
NDMF01049	9.7-10.3	2.4	≥ 30 dB @ 9.0&10.8 GHz	10.7x4.4x0.4
NDMF01050	9.8-11.5	1.3	≥ 39 dB @ 8.8&12.5 GHz	11.0x4.4x0.4
NDMF01051	10.0-16.8	0.9	≥ 34 dB @ 7.8&20.0 GHz	7.8x3.1x0.4
NDMF01052	10.3-12.2	3.4	≥ 46 dB @ 8.2&14.3 GHz	10.0x3.5x0.4
NDMF01053	10.4-12.0	1.5	≥ 35 dB @ 9.4&13.0 GHz	9.0x4.0x0.4
NDMF01054	10.8-12.9	2.0	≥ 35 dB @ 9.6&14.0 GHz	9.9x3.8x0.4
NDMF01055	10.9-12.1	1.8	≥ 45 dB @ 9.7&13.0 GHz	9.1x4.0x0.4
NDMF01056	11.3-13.0	1.7	≥ 42 dB @ 10.0&14.5 GHz	10.5x3.8x0.4
NDMF01057	11.4-14.4	1.3	≥ 31 dB @ 10.4&15.4 GHz	9.6x3.6x0.4
NDMF01058	11.6-18.7	1.1	≥ 33 dB @ 9.5&21.0 GHz	8.0x2.8x0.4
NDMF01059	12.2-15.6	1.2	≥ 41 dB @ 10.7&17.1 GHz	9.2x3.6x0.4
NDMF01060	12.5-18.0	0.9	≥ 32 dB @ 10.0&20.0 GHz	8.5x2.8x0.4
NDMF01061	13.3-15.2	1.8	≥ 52 dB @ 9.7&15.8 GHz	10.2x4x0.4
NDMF01062	13.5-16.5	1.1	≥ 36 dB @ 12.2&18.0 GHz	10.4x3.4x0.4
NDMF01063	13.6-16.0	1.8	≥ 40 dB @ 12.4&17.0 GHz	10.4x3.6x0.4
NDMF01064	14.4-18.6	1.2	≥ 26 dB @ 13.0&20.0 GHz	11.2x2.6x0.4
NDMF01065	14.8-16.7	1.8	≥ 40 dB @ 12.7&18.8 GHz	10.7x3.6x0.4
NDMF01066	14.9-16.1	1.3	≥ 40 dB @ 13.2&17.7 GHz	9.6x3.2x0.4
NDMF01067	15.0-20.0	1.1	≥ 35 dB @ 10.0&22.5 GHz	8.5x2.7x0.4
NDMF01068	15.5-18.2	1.4	≥ 35 dB @ 14.2&20.0 GHz	10.3x3.2x0.4
NDMF01069	15.6-18.2	1.7	≥ 31 dB @ 14.4&19.2 GHz	10.4x3.2x0.4
NDMF01070	15.8-18.2	1.6	≥ 26 dB @ 14.8&19.2 GHz	10.4x3.2x0.4
NDMF01071	15.9-17.1	1.5	≥ 38 dB @ 14.2&18.7 GHz	9.5x3.0x0.4
NDMF01072	16.0-19.0	1.6	≥ 30 dB @ 9.5&24.0 GHz	7.0x2.6x0.4
NDMF01073	18.0-22.0	1.5	≥ 35 dB @ 15.0&25.0 GHz	8.1x3.0x0.4
NDMF01074	18.1-20.1	1.8	≥ 36 dB @ 16.1&21.9 GHz	8.9x3.0x0.4
NDMF01075	19.4-22.9	1.7	≥ 42 dB @ 17.3&26.0 GHz	8.4x2.8x0.4
NDMF01076	19.6-21.2	1.8	≥ 35 dB @ 17.5&23 GHz	9.2x2.8x0.4
NDMF01077	21.0-27.0	0.9	≥ 27 dB @ 15.0&33.0 GHz	7.4x2.2x0.4
NDMF01078	22.35-24.35	1.7	≥ 32 dB @ 20.0&26.5 GHz	8.5x2.5x0.4
NDMF01079	22.4-24.0	1.8	≥ 23 dB @ 20.7&25.0 GHz	9.3x2.5x0.4
NDMF01080	24.0-30.0	0.7	≥ 30 dB @ 15.0&36.0 GHz	7.1x2.1x0.4
NDMF01081	27.5-28.4	2.3	≥ 36 dB @ 23.4&33.0 GHz	7.8x1.8x0.4
NDMF01082	30.6-31.0	1.9	≥ 28 dB @ 27.6&34.0 GHz	7.6x1.8x0.4
NDMF01083	31.5-35.75	2.1	≥ 31 dB @ 17.0&40.0 GHz	7.3x2.0x0.4
NDMF01084	32.0-35.75	2.3	≥ 33 dB @ 17.0&40.0 GHz	7.3x2.0x0.4

MEMS Bandstop Filter

Item No.	Stop-band (GHz)	Attenuation	Return Loss	Case Size (mm)
NDMF02001	4.525-4.625	45dB @ 4.55/4.575/4.6 GHz	12dB @ 0.1-4 GHz 10dB @ 5-13 GHz	5.4x9.8x0.4
NDMF02002	6.48-6.75	45dB @ 6.6/6.625 GHz	12dB @ 0.1-6 GHz 8dB @ 7.5-18.5 GHz	16.6x2
NDMF02003	6.0-6.25	45dB	15dB @ 0.1-5.8 GHz 15dB @ 6.9-12 GHz	16x2.6
NDMF02004	6.35-6.6	45dB	15dB @ 0.1-6.1 GHz 12dB @ 7-12 GHz	16x2.4
NDMF02005	8.5-8.85	45dB @ 8.575 GHz	12dB @ 0.1-7.8 GHz 14dB @ 9.5-16.5 GHz	12.7x2
NDMF02006	10.85-11.22	50dB	12dB @ 0.1-10 GHz 6.5dB @ 12-20 GHz	11.3x2

MEMS Lowpass Filter

Item No.	Frequency (GHz)	Insertion Loss (dB)	Attenuation	Case Size (mm)
NDMF03001	0.1-5	1	40dB @ 7 GHz	6.2x3.0x0.4
NDMF03002	0.1-6	1	40dB @ 10 GHz	4.4x3.0x0.4
NDMF03003	0.1-6	1	50dB @ 9 GHz	8.0x2.8x0.5
NDMF03004	0.1-7	1	40dB @ 10 GHz	7.5x3.0x0.4
NDMF03005	0.1-9	1	35dB @ 13 GHz	6.2x2.2x0.4
NDMF03006	0.1-9	1	35dB @ 13 GHz	3.7x2.0x0.4
NDMF03007	7.5-12.5	1	40dB @ 17.8 GHz	5.8x1.8x0.4
NDMF03008	0.1-12.5	1	35dB @ 18 GHz	3.6x1.8x0.4
NDMF03009	8-18.2	1	20dB @ 21 GHz	6.2x1.7x0.4
NDMF03010	6-18.5	1.5	15dB @ 20 GHz	6.2x1.7x0.4

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MEMS Attenuator Chip

Item No.	Frequency (GHz)	Attenuation (dB)	Return Loss (dB)		
			DC-12GHz	12-26GHz	26-40GHz
NDMF04001	DC-40	0	26	24	20
NDMF04002		0.5	30	24	20
NDMF04003		1	20	18	15
NDMF04004		1.5	28	26	20
NDMF04005		2	28	26	20
NDMF04006		3	26	22	18

MEMS Time-Delay Line

Item No.	Frequency (GHz)	Insertion Loss (dB)	4λ Delay Time	$\Delta\tau$ (ps)	Case Size (mm)
NDMF05001	5.2-5.6	0.7	518.8ps@5.4GHz	6.7	5.7x6.2x0.4
NDMF05002		0.9	619.2ps@5.4GHz	9.0	6.5x5.8x0.4
NDMF05003		1	720ps@5.4GHz	7.9	7.3x6.4x0.4
NDMF05004	0.1-7	1	338pz@9.6GHz	19.4	5.3x3.4x0.4

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MEMS SIW Filter

Item No.	Frequency (GHz)	Insertion Loss (dB)	Attenuation	Case Size (mm)
NDMF06001	14.8-16.6	2.0	≥ 30 dB @ 13.2&18.4 GHz	8.1x8.4x0.4
NDMF06002	15.4-17.0	2.0	≥ 41 dB @ 13.8&18.8 GHz	8.1x8.4x0.4
NDMF06003	29.9-31.9	1.5	≥ 35 dB @ 28.5&33.9 GHz	10.3x2.6x0.4
NDMF06004	31.5-32.2	1.8	≥ 44 dB @ 30.0&34.0 GHz	10.5x2.7x0.4
NDMF06005	31.5-33.0	1.4	≥ 45 dB @ 30.0&34.5 GHz	10.6x2.6x0.4
NDMF06006	31.7-32.2	1.4	≥ 45 dB @ 29.85&33.9 GHz	10.5x2.6x0.4
NDMF06007	33.0-33.4	3.1	≥ 20 dB @ 32.2&34.2 GHz	10.45x2.6x0.4
NDMF06008	33.9-34.5	3.3	≥ 34 dB @ 33.2&35.2 GHz	10.2x2.3x0.4
NDMF06009	34.0-36.0	1.7	≥ 35 dB @ 35.0&38.0 GHz	10.7x2.3x0.4
NDMF06010	34.5-36.0	2.0	≥ 40 dB @ 33.0&37.5 GHz	10.6x2.3x0.4
NDMF06011	35.6-36.0	3.0	≥ 40 dB @ 34.2&37.0 GHz	10.3x2.3x0.4
NDMF06012	10.5-42.0	1.5	45 dB @ 38.5 GHz	8.7x1.9x0.4
NDMF06013	42.0-43.5	1.5	38 dB @ 38.7 GHz	8.6x2.3x0.4

MEMS Micro-Shielding Filter

Item No.	Frequency (GHz)	Insertion Loss (dB)	Attenuation	Case Size (mm)
NDMF07001	5.8-7.4	2.0	≥ 44 dB @ 5.1&8.1 GHz	7.3x5.0x0.8
NDMF07002	7.9-9.1	1.6	≥ 47 dB @ 6.7&10.0 GHz	6.5x4.3x0.8
NDMF07003	1.9-9.9	1.6	≥ 37 dB @ 7.0&11.0 GHz	5.6x3.7x0.8
NDMF07004	7.9-10.1	1.6	≥ 50 dB @ 6.1&11.5 GHz	5.8x3.6x0.8
NDMF07005	8-10.5	2.0	≥ 50 dB @ 7.0&11.5 GHz	7.3x4.2x0.8
NDMF07006	8.9-10.1	1.5	≥ 40 dB @ 7.7&11.0 GHz	6.6x4.0x0.8
NDMF07007	9.9-11.1	1.6	≥ 45 dB @ 8.7&12.0 GHz	6.7x3.7x0.8
NDMF07008	9.9-12.1	1.6	≥ 50 dB @ 7.9&13.5 GHz	6.0x3.1x0.8
NDMF07009	10.9-12.1	2.4	≥ 45 dB @ 9.7&13.0 GHz	6.7x3.5x0.8
NDMF07010	12.0-16.0	1.3	≥ 55 dB @ 8.2 GHz	6.9x3.1x0.8
NDMF07011	12.2-15.6	2.1	≥ 40 dB @ 10.7&17.1 GHz	7.1x3.2x0.8
NDMF07012	15.0-20.0	1.1	≥ 40 dB @ 10.5&22.0 GHz	6.7x2.8x0.8
NDMF07013	15.2-18.2	2.3	≥ 23 dB @ 14.2&19.2 GHz	7.6x2.8x0.8
NDMF07014	19.0-23.5	1.2	≥ 55 dB @ 12.0&27.0 GHz	6.9x2.1x0.8
NDMF07015	21.5-22.5	2.3	≥ 33 dB @ 20.5&24.0 GHz	7.5x2.1x0.8
NDMF07016	21.8-23.4	2.4	≥ 40 dB @ 20.0&25.0 GHz	6.8x2.1x0.8
NDMF07017	22.5-22.7	1.7	≥ 33 dB @ 25.95&25.2 GHz	4.8x2.5x0.8
NDMF07018	26.3-27.0	1.7	≥ 35 dB @ 23.0&29.5GHz	7.9x2.3x0.8



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