



NOVEL
FILTER
DESIGNS
AND TUNING
TECHNIQUES

UNIQUE
TUNING
METHODS
AND FILTER
TOPOLOGIES

PRODUCTS
CURRENTLY
RANGE
FROM 2 MHz
TO 1.4 GHz

NEXT STAGE
TUNABLE
FILTERS

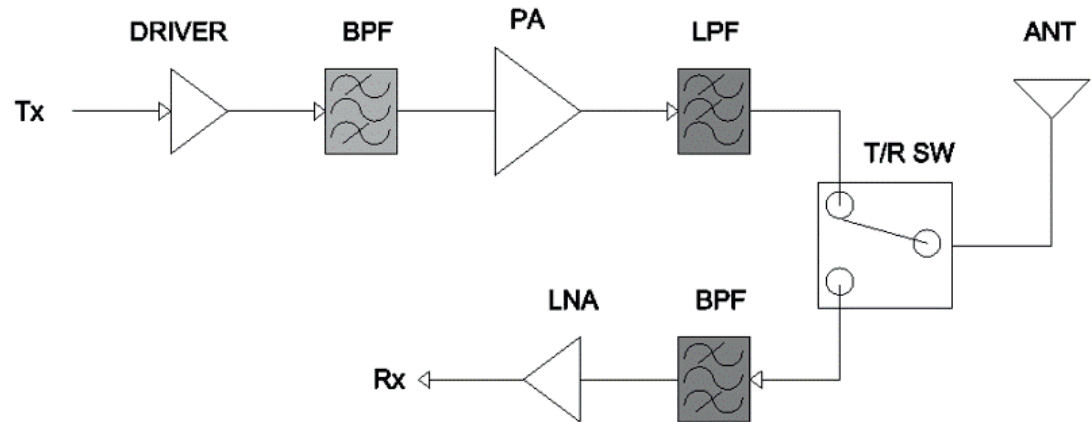
NewEdge™ is a high-tech RF solutions company. Serving both the wireless infrastructure and defense markets, NewEdge solves technical problems resulting from the explosion of frequency bands, waveforms and mobile standards, from 2G to 5G. NewEdge technology enables the virtualization of the Wireless RAN (Radio Access Network) with a highly-flexible RF front end. Also serving the defense industry, NewEdge technology supports mission-critical communications in highly contested RF environments.

NewEdge's tunable filter and RF Front End products offer breakthrough performance in the areas of size, power consumption and agility.

The company was founded in 2011 and is headquartered near Boston, Massachusetts.

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Transmit BPF – Noise Mitigation

- Medium Power [0.5 – 2.0]W
- Tunable
- Traditional Location

Transmit LPF – Harmonic Suppression

- High Power [>5W]
- Harmonic SFB
- Tunable

Receive BPF – Pre-Selector

- Interferer signal rejection
- Low Power [<0.25W]
- Low Noise Floor for System sensitivity
- Tunable
- New Market

Military Legacy Radios

HF [2-30] MHz

Tactical Comms

VHF / UHF [30-520] MHz

UHF / L-Band [0.5 -2.0] GHz

2018 TUNABLE FILTER PORTFOLIO

Frequency [MHz]	Part #	PB IL [dB] [typ]	Rejection @+/-10% [dB]	I/O VSWR	Step Size [MHz]	Tuning CTL	Typ. Tuning Speed [μs]	Power Handling [W]	DC Power	Size [inches]
225 - 520	SAX103-E1	< 3.5	> 16	< 2:1	0.59	9-Bit Parallel	15	2	+5V @ < 250mA	2.3 x 1.4 x 0.6
30 - 520	SAX239 R2	< 4.3	> 14	< 2:1	1MHz @ 30-88 2MHz @90-520	SPI	25	2	+3.5 @ <30mA	1.2 x 1.2 x 0.4
30 - 520	SAX254-01	< 5.5	> 20	< 2:1	1MHz @ 30-88 2MHz @90-520	SPI	25	2	+5 @ <40mA	1.2 x 1.2 x 0.4
30 - 520	SAX254-02	< 6.5	> 24	< 2:1	1MHz @ 30-88 2MHz @90-520	SPI	25	2	+5 @ <40mA	1.2 x 1.2 x 0.4
2 - 30	SAX257	< 1.5	> 18	< 2:1	0.2 @ 2-4MHz 0.35 @ 4-10MHz 1.2 @ 10-30MHz	SPI	150	50	+12 @ <120mA	4 x 4 x 1
2 - 4	SAX261	< 3.0	> 18	< 2:1	0.2	SPI	40	2	+5 @ <40mA	2.3 x 1.4 x 0.6
4 - 10	SAX262	< 3.0	> 18	< 2:1	0.35	SPI	40	2	+5 @ <40mA	2.3 x 1.4 x 0.6
10 - 30	SAX263	< 3.0	> 18	< 2:1	1.2	SPI	40	2	+5 @ <40mA	2.3 x 1.4 x 0.6
30 - 512	SAX265	< 5.5	> 14	< 2:1	2 @ 30-88MHz 3 @ 90 - 512	SPI	25	0.25	+5 / +50 @ <25mA	0.55 x 0.55 x 0.25
225 - 512	SAX267	< 4.3	> 14	< 2:1	2	SPI	25	0.5	+5 / +50 @ <25mA	0.5 x 0.35 x 0.2
174 - 512	SAX270	< 4.3	> 15	< 2:1	2	SPI	25	0.5	+5 / +50 @ <25mA	0.5 x 0.45 x 0.2
30 - 88	SAX271	< 4.0	> 25 @15%	< 2:1	1	SPI	25	5	+5 @ <20mA	1.25 x 0.75 x 0.25
350 - 400	SAX276	< 4.3	> 40	< 2:1	2	SPI	25	1	+3.3 @ <12mA	1 x 1 x 0.5

