

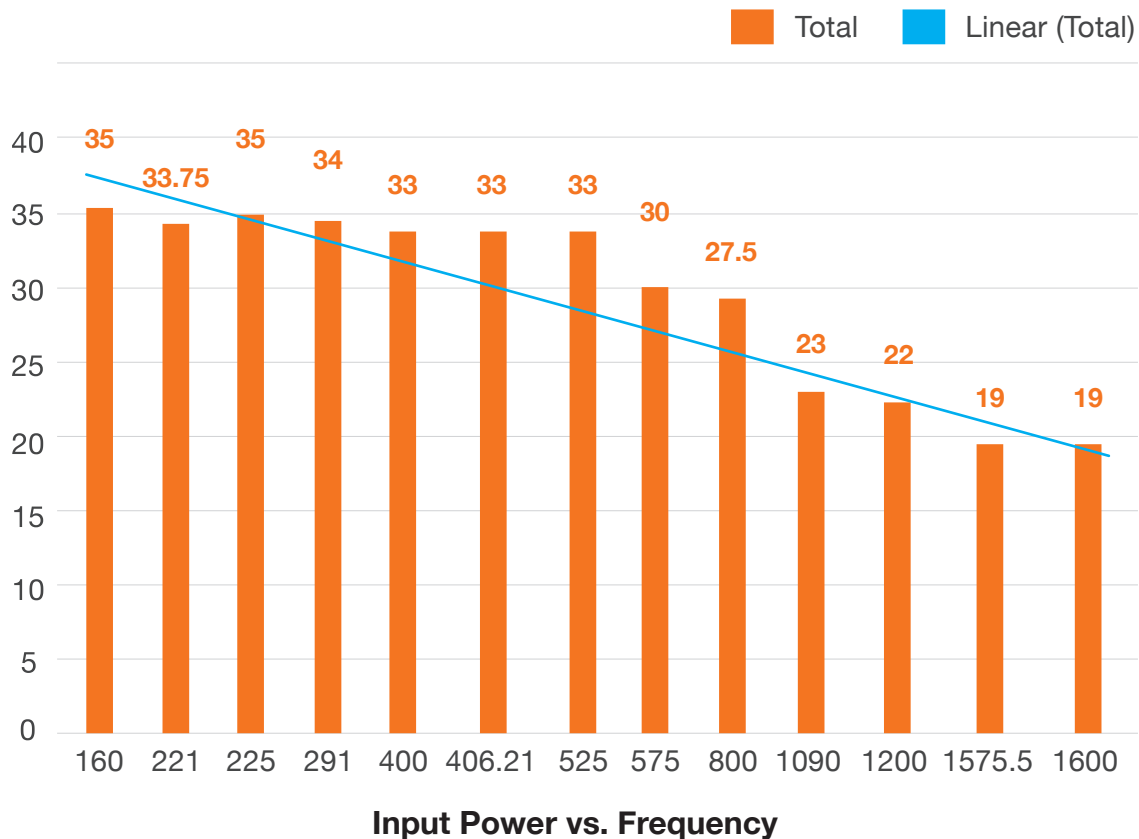
High Input Power SAW Filters

- Small size: Down to 3 x 3 mm LLC.
- Durable: Pin = +15 to +35 dBm Steady State for >100 years equivalent.
- Low Insertion Losses
- Ideal for commercial, military or space based applications.
- Temperature range of -40°C to 85°C.

Spectrum Control expertise breaks new ground for SAW filters by adding high power (HP) input capabilities. Input power levels up to +35 dBm CW at +125C and covering narrow, wide and fractional bandwidths across frequencies of 20 MHz to 1.6 GHz. Our 20-500 MHz High Power SAWs are capable of taking up to +35 dBm CW input power @125C without degradation of the filters key parameters (center frequency, bandwidth, insertion loss, ripple).



Figure below illustrates SAW filter power input handling capabilities vs center frequency. Pin is linear based on larger die at lower frequencies and conversely the smaller die of the SAW at higher frequencies.



Model Number	Fc (MHz)	BW (MHz)
SF0291HP03540S	291.4	1
SF0404HP03526S	404	12
SF0525HP03525S	525	10
SF0575HP03515S	575	10
SF0575HP03516S	575	18
SF0802HP03520S	802.5	7
SF1285HP13526S	1285	10