



## SAW VESTIGIAL SIDEBAND FILTERS

### GENERAL DESCRIPTION

These SAW (surface acoustic wave) VSB (Vestigial Sideband Filters) filters address the needs of broadcast and cable TV applications. These VSB filters (VSFs) are designed for television signal IF (intermediate frequency) filtering, with some models providing high suppression of the audio carrier while other models pass the audio carrier without attenuation. The excellent linear phase characteristics and low group delay ripple of these VSFs yield superior 2T and 20T pulse performance. These SAW VSFs provide superior in-band performance while maintaining high rejection of adjacent channels.

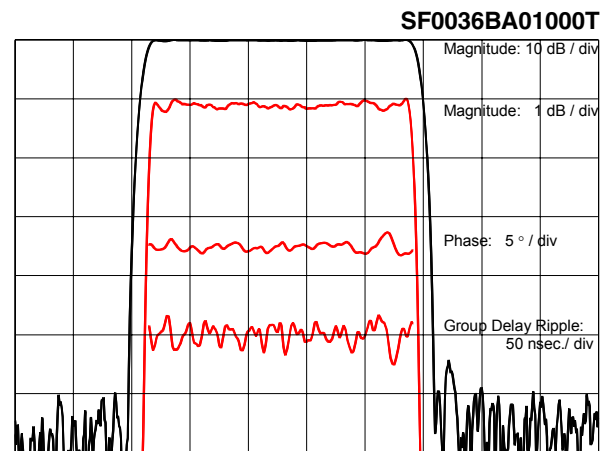
### APPLICATIONS

- CATV (Cable TV) Headend Modulators/Combiners
- Television Transmitters/LPTV
- HDTV IF processing
- Satellite and terrestrial distribution
- Broadcast/CATV systems
- Adjacent channel suppression

### FEATURES

- Exceptionally low amplitude and group delay ripple
- Worldwide broadcast standards supported
- Available at standard video intermediate frequencies
- DIP packaging, including: DIP-G (35 x 20 mm), DIP-B (39 x 26), and DIP-O (22 x 13 mm)

### TYPICAL RESPONSE



Frequency: 1.5 MHz/div

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Part Number	Frequency (MHz)	Band width (MHz)	Insertion Loss (dB)	F_visual (MHz)	F_colour (MHz)	F_sound (MHz)	Sound Pass	Package (mm)	Primary Application
SF0036BA01000T	35.35	6.97	32	38.9	32.9	32.4	Yes	DIP-G, 35x20	VSB-L
SF0035BA01847T	35.375	6.85	30	32.7	38.7	39.2	No	DIP-B, 39x26	VSB-D/K
SF0036BA00642T	35.67	7.58	32	38.9	32.9	32.4	Yes	DIP-G, 35x20	VSB-L
SF0036BA00628T	36.23	7.96	32	38.9	32.9	32.4	No	DIP-G, 35x20	VSB-L
SF0036BA01072T	36.33	6.8	32	38.9	34.5	33.4	Yes	DIP-G, 35x20	VSB-G
SF0036BA01866T	36.75	5.75	30	38.9	33.4	32.9	No	DIP-B, 39x26	VSB-I
SF0036BA01867T	36.75	5.75	32	38.9	34.5	33.4	No	DIP-B, 39x26	VSB-B/G
SF0036BA01033T	36.83	5.82	30	38.9	34.5	33.4	No	DIP-G, 35x20	VSB-G
SF0044BA01382T	43.68	5.65	25	45.75	42.17	41.25	Yes	DIP-B, 39x26	VSB-M
SF0044BA00619T	43.75	5.74	25	45.75	42.17	41.25	Yes	DIP-O, 22x13	VSB-M
SF0044BA01957T	43.8	5.5	25	45.75	42.17	41.25	Yes	DIP-O, 22x13	CATV
SF0044BA01860T	43.85	5.35	30	45.75	42.17	41.25	Yes	DIP-B, 39x26	VSB-M
SF0044BA01470T	43.85	5.29	29	45.75	42.17	41.25	Yes	DIP-B, 39x26	VSB-M
SF0044BA00618T	43.95	5.15	23	45.75	42.17	41.25	No	DIP-O, 22x13	VSB-M
SF0044BA01800T	44.05	5	30	45.75	42.17	41.25	No	DIP-B, 39x26	VSB-M
SF0044BA01954T	44.1	10	30	-	-	-	-	DIP-B, 39x26	CATV
SF0044BA01081T	44.25	6.4	26	45.75	42.17	41.25	Yes	DIP-G, 35x20	VSB-M