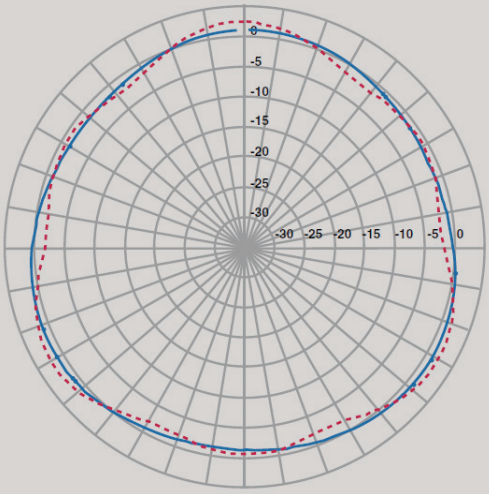
Dielectric®

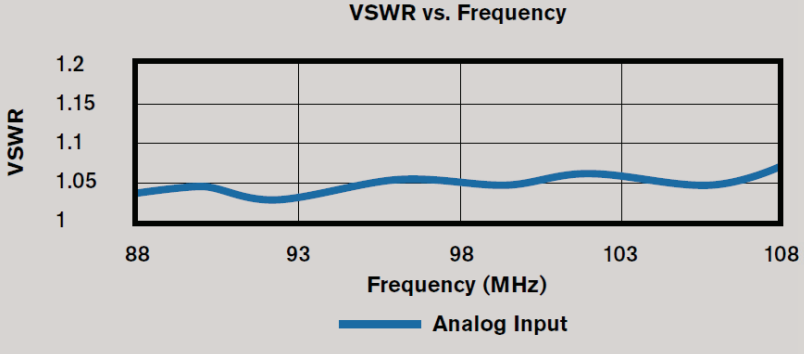
FMVee

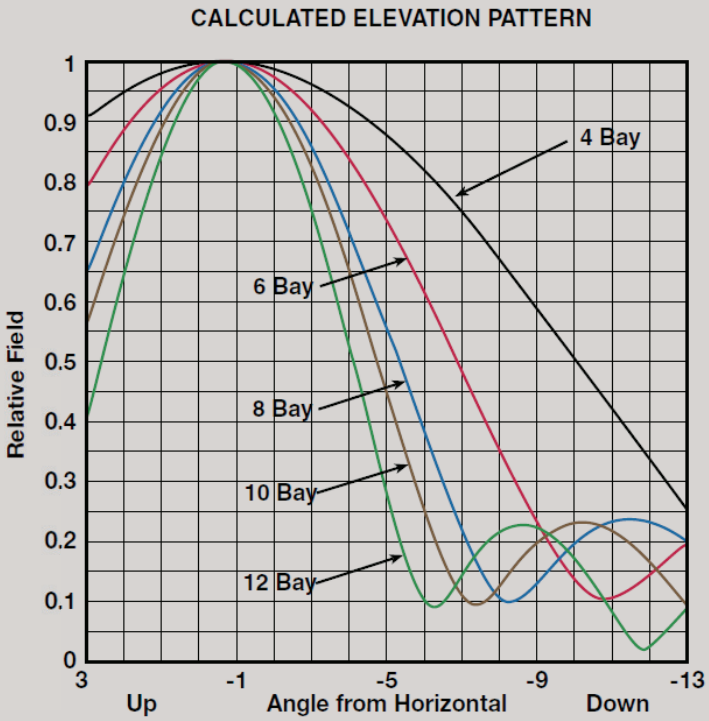
The FMVee antenna offers ideal characteristics to FM stations desiring the advantages of top mounting and combining many Class C stations. The Dielectric FMVee radiator consists of three circularly polarized stainless steel radiators mounted around on a structural mast. The wings between each element shape provide better circularity and also isolate adjacent elements. The unique design of the FMVee antenna offers control of the elevation pattern by adjusting beam tilt and null fill, which is important to maintain good coverage at any distance. The FMVee antenna is designed for enabling many high power stations share the top of the tower for best unobstructed transmission. Conservative power rating ensures adequate design headroom for long-term reliability.

Specifications:

- Full 20 MHz bandwidth
- Top mount design
- Power ratings up to 10 class C stations
- Stainless steel element
- Designed for -10 dB IBOC
- Single or dual EIA inputs
- Feed point radome standard
- Low downward radiation
- Omni-directional pattern
- RH circular polarization standard
- Low windband
- All radiating elements grounded
- Ideal for separate analog and IBOC transmitter for lower operating cost
- Can be used with common amplification or high level combining







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Electrical Specifications

Model	# of Bays	RMS Gain/ Polarization	RMS Gain/Polarization (dBd)	Input 50 ohm	Max. Avg. Power (kW)	Rad. Center About tower top (ft.)
FMVee-03-2FM/6U-1	2	0.9	-0.46	6-1/8"	125	8.83
FMVee-03-4FM/12U-1	4	1.8	2.56	6-1/8"	135	17.5
FMVee-03-6FM/18U-1	6	2.7	4.31	6-1/8"EHT	185	26.16
FMVee-03-8FM/24U-1	8	3.7	5.68	6-1/8"EHT	185	34.83
FMVee-03-10FM/30U-1	10	4.6	6.63	6-1/8" EHT	185	43.5
FMVee-03-12FM/36U-2	12	5.6	7.48	two 6-1/8" EHT	250	52.16

Mechanical Specifications

Model	Length (ft)	CfAc(ft^2)	Moment Arm (ft)	Weight (lbs)
FMVee-03-2FM/6U-1	21.66	92	8.83	6,500
FMVee-03-4FM/12U-1	39	184	17.5	12,500
FMVee-03-6FM/18U-1	56.33	276	26.16	19,000
FMVee-03-8FM/24U-1	73.66	368	34.83	26,000
FMVee-03-10FM/30U-1	Contact	Factory		
FMVee-03-12FM/36U-2	Contact	Factory		