

LIGHTNING//EMP PROTECTION DEVICES

Recognize that NOTHING can fully protect you from a direct lightning strike. It has enough power to turn yards of sand into GLASS. The goal of lightning protection systems is a) to protect you from NEARBY STRIKES (like to a tree in your yard) and to b) REDUCE the damage from a direct strike. THE BEST PROTECTION IS A TREE OR SOMETHING ELSE ****HIGHER**** THAN YOUR ANTENNA.

Expensive commercial lightning protection systems generally use a \$3 gas discharge tube, and may or may not also provide DC blockage using a couple of capacitors. The latter MAY help. Use the straightest, shortest, largest ground wire you can to the best ground you have available. Anything beats nothing. Commercial lightning grounds are wonders to behold....and you aren't going to be able to duplicate them fully at your house.

No.	Item / Explanation	Cost each	Decide how many you want
1	Gas Discharge Tube Littelfuse Inc. CG2230L 230V, 20,000 amperes (Suitable for 100 Watts in 2:1 or better SWR)	\$3.06	
2	Gas Discharge Tube for higher power system or lousier SWR – Use 350V gas discharge tube	\$2.50	
	HOUSING		
3	Use your own SWR meter or Antenna Tuner (gas discharge tube gets soldered from center conductor to outer conductor at some connector)	free	
4	Buy an SWR meter from me to use	\$20.00	
5	Use a blue plastic handi-box and 2 SO-239's	\$5.00	
6	OPTIONAL DC BLOCKING (cannot be done inside a parallel transmission line type SWR meter; easy to do in the toroidal SWR meters and in the blueplastic handi-box designs. 2 0.01 uf capacitors, 1KV, in parallel, inserted in series with the center conductor line. Vishay BC Components S103M47Z5UN63J7R	\$0.62	