

EMC Test Laboratory Cedar Rapids, IA David L. Fry Regulatory Engineer Date: Oct 13, 2000

The long antenna is 7-inch (17.8-cm) long ½ wave end-fed whip dipole from Centurion part number CAF28766, Intermec part number 805-490-004. Gain –2.5 dBd, VSWR 1.5:1, 50 Ohms.

ERP Calculator dBd + 2.17 = dBi

				Antenna Gain dBi	-0.33
TX Frequency (MHz)	900	Watts	2	Antenna Gain dBd	-2.50
Cable Losses dB	0.2	dBm	33.010300	radiated dBm	30.310300
Calculated ERP (mW)		1074.063593		1.1 Watts	

The short antenna is 3.5-inch (9-cm) long ¼ wave end fed dipole from Mobile Mark model number PSTN2-899CI, Intermec part number 805-572-002. Gain -1.2 dBd, VSWR 2-2.5:1, 50 Ohms.

ERP Calculator dBd + 2.17 = dBi

TX Frequency (MHz)	900	Watts	2	Antenna Gain dBi Antenna Gain dBd	0.92 -1.25
Cable Losses dB	0.2	dBm	33.010300	radiated dBm	31.560300
Calculated ERP (mW)		1432.286820		1.4 Watts	