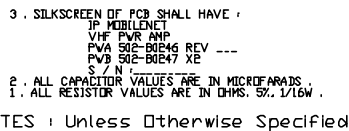


REVISIONS			
ITER	DESCRIPTION	DATE	APPROVED
X2	PRELIMINARY RELEASED	3-18-03	



FILENAME = 50280245.SCH			
APPROVAL	DATE	IP MobileNet Inc.	
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ENGRG MGR		Title	
RELEASED		SCHEM - VHF POWER AMP (138 MHz)	
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			Rev X2

Product Specifications
TABLE 4: PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS			
PARAMETER	Specification IP100	Specification IP400	Specification IP800
frequency range	135 to 175 MHz	400 to 512 MHz	806 to 869 MHz
channel spacing / speed	12.5 kHz / 9600 bps 25.0 kHz / 19200 bps	12.5 kHz / 9600 bps 25.0 kHz / 19200 bps	12.5 kHz / 9600 bps 25.0 kHz / 19200 bps
mode of operation	full-duplex, diversity reception	full-duplex, diversity reception	full-duplex, diversity reception
operating temperature range	-30C to +60C (-22F to +140F)	-30C to +60C (-22F to +140F)	-30C to +60C (-22F to +140F)
power supply voltage	13.8 VDC +/-20%	13.8 VDC +/-20%	13.8 VDC +/-20%
power supply	<1 amps receive	<1 amps receive	<1 amps receive
current consumption	16 amps transmit	13 amps transmit	8 amps transmit
number of channels	256	256	256
intelligent diversity reception	triple receiver, diversity reception	triple receiver, diversity reception	triple receiver, diversity reception
antenna connections	four (4) type N jacks (tx, rx1, rx2, rx3)	four (4) type N jacks (tx, rx1, rx2, rx3)	four (4) type N jacks (tx, rx1, rx2, rx3)
interface connection	RS232 serial port connector or RJ45 Ethernet 10 Base T	RS232 serial port connector or RJ45 Ethernet 10 Base T	RS232 serial port connector or RJ45 Ethernet 10 Base T
dimensions (HxWxD / lbs)	1.75" X 19" X 8.2" / 9.5 lbs	1.75" X 19" X 8.2" / 9.5 lbs	1.75" X 19" X 8.2" / 9.5 lbs
regulatory	FCC Part 90 and Part 15	FCC Part 90 and Part 15	FCC Part 90 and Part 15

IP TRANSMITTER SPECIFICATIONS			
PARAMETER	Specification IP100	Specification IP400	Specification IP800
frequency stability	+/- 2.4 ppm @ operating temp	+/- 1.5 ppm @ operating temp	+/- 1.0 ppm @ operating temp
emission designator	20KF01D	20KF01D	20KF01D
spurious and harmonic	-61 dBc max	-59 dBc max	-56 dBc max
transmit power	60 watts	40 watts	20 watts
transmit attack time	less than 5 ms	less than 5 ms	less than 5 ms

IP RECEIVER SPECIFICATIONS			
PARAMETER	Specification IP100	Specification IP400	Specification IP800
sensitivity (voice)	12.0 dB SINAD@ -119 dB max level	12.0 dB SINAD@ -118dB max level	12.0 dB SINAD@ -118dB max level
distortion	less than 3% @ 1.0 kHz	less than 3% @ 1.0 kHz	less than 3% @ 1.0 kHz
spurious response	85 dBm minimum	85 dBm minimum	85 dBm minimum
intermodulation distortion	75 dB minimum	75 dB minimum	75 dB minimum