


2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The EUT is a WLAN operating over the 2400 to 2483.5 MHz band with an output power of 17.2 dBm (52.5 mW). The highest antenna gain, including coaxial feed cable, is 17.8 dBi.

Below is a summary of the schematic changes made to the device.

- (1) Optimized Power over Ethernet
- (2) Optimized RF section for RX sensitivity – component value changes, etc.
- (3) Changed from Molex to Tyco RJ-45 connector

Additional antennas and antenna types are added, as follows:

|  | | RF Exposure Antenna Summary | | Network Systems Organization | | | | | | |
|---|-------------------------|------------------------------------|--------|------------------------------|-----------------|----------|------------|----------|-----------|--------------------|
| FCC ID: H9PCCRF5020 | | WLAN RF Port | | Source Based | | | | | | |
| Output Power: 57.5 mW | | Class II Permissive Change | | AP DC Factor: 1.000 | | | | | | |
| | | | | Remote DC Factor: 1.000 | | | | | | |
| Mobile Antennas (R>2m) | | | | | | | | | | |
| Ant No | Antenna Desc. | Symbol P/N | Type | Gain (dBi) | Cable Loss (dB) | Net Gain | Pout (dBm) | MPE (cm) | TR Status | Device Use |
| 01. | Panel 8.5, 120° Sector | ML-2499-11PNA2-01 | Panel | 11.2 | 2.68 | 8.5 | 14.92 | 5.7 | See # 11 | Fixed Pt - MultiPt |
| 02. | Panel 9.5, 65° | ML-2499-12PNA2-01 | Panel | 12.2 | 2.68 | 9.5 | 14.92 | 6.4 | See # 11 | Fixed Pt - MultiPt |
| 03. | Panel 6.3, 80°, Diverse | ML-2499-7PNA2-01 | Panel | 7.6 | 1.34 | 6.3 | 16.26 | 4.4 | See # 11 | Fixed Pt - MultiPt |
| 04. | Rubber Duck, Cushcraft | ML-2499-APA2-01 | Dipole | 2.0 | 0.00 | 2.0 | 17.60 | 2.7 | See # 9 | Fixed Pt - MultiPt |
| 05. | Pipe Bomb 11" x 48" | ML-2499-HPA3-01 | Dipole | 6.2 | 1.34 | 4.9 | 16.26 | 3.7 | See # 9 | Fixed Pt - MultiPt |
| 06. | Panel HD 6.3, 65° | ML-2499-PNAHD-01 | Panel | 7.6 | 1.34 | 6.3 | 16.26 | 4.4 | See # 11 | Fixed Pt - MultiPt |
| 07. | Patch, 2.3, 48° | ML-2499-SD3-01 | Patch | 3.6 | 1.34 | 2.3 | 16.26 | 2.8 | Tested | Fixed Pt - MultiPt |
| 08. | Patch, Diversity | ML-2499-SDD1-01 | Patch | 3.6 | 1.34 | 2.3 | 16.26 | 2.8 | See # 7 | Fixed Pt - MultiPt |
| 09. | Dipole 25" x 7" | ML-2499-BMMA1-01 | Dipole | 7.0 | 0.20 | 6.8 | 17.40 | 4.7 | Tested | Fixed Pt - MultiPt |
| 10. | Dish, 18, 10° | ML-2499-BPDA1-01 | Dish | 24.0 | 6.17 | 17.8 | 11.43 | 16.7 | Tested | Fixed Pt - Pt |
| 11. | Panel 14.5, 31° | ML-2499-BPNA3-01 | Panel | 14.5 | 0.33 | 14.2 | 17.26 | 10.9 | Tested | Fixed Pt - Pt |
| 12. | Yagi, 13.6, 34° | ML-2499-BYGA2-01 | Yagi | 13.9 | 0.33 | 13.6 | 17.26 | 10.2 | Tested | Fixed Pt - Pt |