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**End Application:**

5895-01-495-9105 lightweight multiband satellite terminal (lmst), an/usc-6 (v) 1

**Criticality Code Justification:**

Feat

**Product Name:**

Circuit card assembly, modulator

**Special Features:**

Contains parts and assemblies susceptible to damage by electrostatic discharge (esd)

**Functional Description:**

Satellite modulator that shall provide digital baseband interfaces, overhead framing, data scrambling, differential encoding, forward error correction encoding, phase shift keyed modulation, intermediate frequency interfaces and built in test and control functions; external reference frequency shall be selectable between 1 mhz, 5 mhz, 10 mhz and 20 mhz; return loss shall be 14 db or greater from 1 to 20 mhz; cca shall not exceed 2 pounds; oper temp range 0 to 65 degrees c; storage temp range -40 to +71 degrees c; cca shall be fully operational within 3 minutes of initial power-on over the full range of temperature; altitude: oper sea level to 7, 000 ft, non-oper sea level to 40, 000 ft; materials, processes and parts shall be selected to meet a oper lifetime of 15 years

**Shelf Life:**

N/a

**Unit Of Measure:**

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**Demilitarization:**

Yes - demil/mli

**Fig:**

A511k0