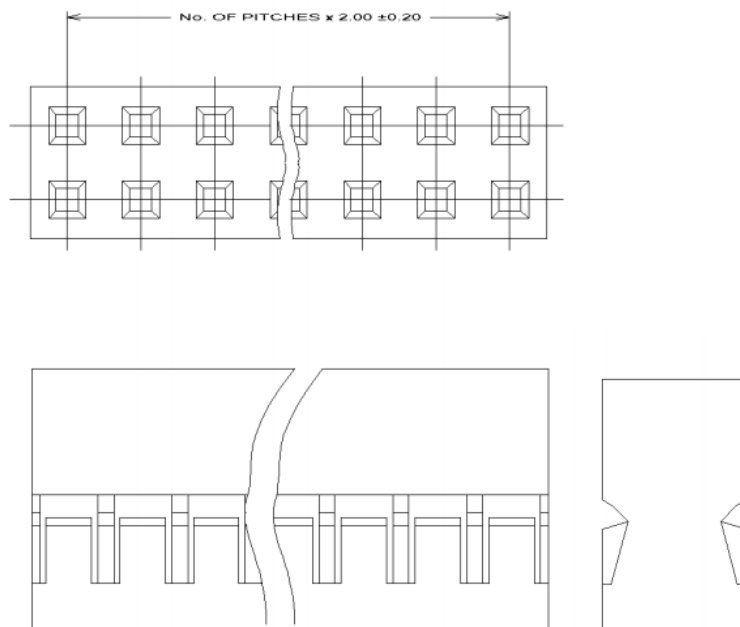


Datasheet

Female Straight Black Open Top 2 Way 1 Row 2mm Pitch

RS Stock number [636-5347](#)



Description

A range of 2mm pitch square pin connectors for interconnecting board to board. The socket is a box section design with barbs, to locate and hold in an insulated housing. Terminations are available for through- board solder or surface mount in a vertical mounting.

The 0.5mm square plug ins are retained in a moulding, and are available in either horizontal or vertical through – board solder mounting or surface mount.

Connectors are available In single and double row variations. Contacts may be gold/tin, gold or tin plated.

**Material**

Female housing: Polyester UL94V-0

Female contacts: Phosphor Bronze

Male mouldings: Polyester UL94V-0 or High Tem Thermoplastic UL94V-0

Male contacts: Phosphor Bronze

Electrical Characteristics

Current per contact in isolation, at an ambient temperature of 25°C 2.0A max

Current per contact through all contacts, at an ambient temperature of 25° 1.0A max

Voltage proof is 650Vrms at 50Hz (sea level)

Contact resistance (initial) 20mΩmax (tin) 15mΩ max (gold)

Contact resistance (after conditioning) 30mΩmax (tin) 20mΩ max (gold)

Insulation resistance (initial) 1000MΩ min

Insulation resistance (after conditioning) 100MΩ min

Environmental Characteristics

Environmental classification: 40/105/21

Low air pressure severity 300mbar

Mechanical Characteristics

Durability: 300 operations (gold) 50 operations (tin)

High temperature, long term: 1000 hours at 70°C

High temperature, short term (no electrical load): 250 hours at 85°C

Insertion and withdrawal forces (N= No. of contacts)

Maximum insertion force: 2.0N x n

Minimum insertion force: 0.8N x n

Maximum withdrawal force: 1.0N x n

Minimum withdrawal force : 0.3N x n