I.C. Sockets

Performance Characteristics:

Physical:  
- Engaging force: 250 grams (+0.1333) - Separating force: 50 grams (+0.08) 

Electrical:  
- Rating: 250 VAC  
- Contact resistance: 20 milliohms max. initial, 30 milliohms max. after test  
- Dielectric withstanding voltage: 1000 V RMS min.  
- Insulation resistance: 50,000 megohms min.  
- Capacitance: 5.0 picofarad max.  

Environmental:  
- Operating temperature: -55°C to +105°C 
- Storage temperature: -55°C to +125°C (gold) 
- Vibration: 10-2000 Hz in 20 minutes at 0.06 [1.52] or 15G's for 3 sweeps in each of 3 axes 
- Shock: 100 G's sawtooth; 6 shocks.

Material and Finish:  
- Housing: Glass-filled thermoplastic, 94V-0 rated, black.  
- Component Testing:  
- Receptacles help board components during burn-in and prevent heat damage to pc boards 
- Board components can be inserted to the board 
- Closed Bottom Design: inhibits flux contamination and solder wicking  
- Low profile - .210 (5.33) max. seating plane above pc board 
- Dielectric withstanding voltage: 1000 VRMS min.  
- Shock: 100 G's sawtooth; 6 shocks.  
- Vibration: 10-2000-10 Hz in 20 minutes at .06 [1.52] or 15G's for 3 sweeps in each of 3 axes.  
- Stress stop wall: prevents damage to socket contact from bent or twisted DIP leads and off-set insertion or extraction of DIP packages  
- Closed Frame Style (unless noted)  
- Large target area: makes it easy to insert DIP packages  
- Dual wiping contacts: make a gas-tight connection for high reliability. Low profile: .175 (4.45) max. seating plane above pc board  
- Capacitance (Adjacent Contacts): 0.5 picofarad max.  
- Disconnecting force: 50 grams  
- Dielectric: Glass-filled thermoplastic, 94V-0 rated, black. 
- Beryllium Copper with 15µ Gold Plating  
- Beryllium Copper with Tinned Plating  

SIP Sockets

STRAIGHT SOLDER TAIL

The DIPLOMATE DIP SIP socket family provides high quality at low cost with superior handling characteristics. These stockable housings feature a "true closed bottom" design which prevents solder or flux wicking. Housing and Cover are high temperature thermoplastic, 94V-0 rated.  

Performance Characteristics:  
- Current Rating: 1 amp Max.  
- Operating Temp.: -55°C to +105°C  
- Dielectric Withstanding Volt.: 750 VAC min.  
- Capacitance (Adjacent Contacts): 0.018 (0.46 – 0.62) max. 
- Durability: 15 insertion/withdrawal cycles

Test Sockets

Reusable Receptacles for Compo-  
- Foaming tools: prevent heat damage to pc boards and components during burn-in and board-manufacturing evaluation. Receptacles eliminate need for soldering components directly to the board. Board components can be inserted and extracted at a minimum of 100 times.

SIP Sockets

PHOTOCONDUCTIVE Sockets

Housing: High temperature thermoplastic, 94V-0 rated, black. Cover: Polyphenylene sulfide (PPS), 94V-0 rated, black. MICRO-PITCH: Housing and Cover are high temperature thermoplastic, 94V-0 rated.  

Performance Characteristics:  
- Current Rating: 1 amp Max.  
- Operating Temp.: -55°C to +105°C  
- Dielectric Withstanding Volt.: 750 VAC min.  
- Capacitance (Adjacent Contacts): 1.08 (2.37 – 2.52) max. 
- Durability: 15 insertion/withdrawal cycles

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