

HARWiN

Component Specification

C00417

Round Pin I.C. Sockets November 2022

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1. DESCRIPTION OF CONNECTOR AND INTENDED APPLICATION

A range of round pin and wire-wrap I.C. sockets intended to accommodate integrated circuits and other components having connection pins. Machined female contacts with gold-plated contact finish are housed in glass-filled thermoplastic housings. Termination surfaces are tin-plated throughboard solder and wire-wrap terminations. Single row modular and double row styles are available.

2. <u>RATINGS</u>

2.1. Electrical Characteristics

Current Rating (per contact): One contact per connector is electrically loaded, 25°C ambient One contact per connector is electrically loaded, 85°C ambient Current per contact through all contacts, 25°C ambient Current per contact through all contacts, 85°C ambient Creepage path contact-to-contact Air gap contact-to-contact	1A max 1.5A max 1.25A max 0.7mm min
Contact Resistance (maximum): Initial After conditioning* Insulation Resistance (minimum): Initial	23mΩ
Hot after conditioning [*] Capacitance - 1 contact to all other contacts, and the mounting plate/board, also between 2 adjacent contacts and all other contacts and mounting plate/board connected	100M Ω
Dielectric Strength Voltage Rating * Conditioning shall be defined as having 5 insertions and withdrawals for measurements, the final measurements being taken on the fifth insertion using pin shown in Appendix A1.1.	100V rms/150V DC ollowing the initial

2.2. Environmental Characteristics

Environmental Classification	
Operating Temperature Range	55°C to +125°C
Low Air Pressure Severity	
Vibration Severity	10Hz to 2,000Hz at 0.75mm, 10G, duration 6 hours
Shock Severity	100G for 6ms
Acceleration Severity	50G
Bump Severity	

2.3. Mechanical Characteristics

Durability	1,000 operations		
High Temperature, Long Term (current as in 3.1.)	1,000 hours at 85°C		
High Temperature, Short Term (no electrical load)	250 hours at 125°C		
Contact Shell Retention in Housing	20N min		
Contact Clip Retention in Shell:			
Minimum retention force contact clip from shell from a sample of 10 contacts may be 25N,			
providing the average of the sample is 37N minimum.			
Insertion force per contact (using pin shown in Appendix A1.1)			

APPENDICES NOTES:

- 1. Third angle projection is used where projected views are shown.
- 2. All dimensions are in millimetres.
- 3. For explanation of dimensions, etc. see BS308.
- 4. Unless otherwise stated, all dimensions are maxima.

APPENDIX 1 – GAUGES

NOTES:

- 1. Material = Steel to BS1407 or equivalent.
- 2. Gauging surfaces to be hardened/ground, 650 HV5 min.
- 3. These gauges to be used for testing fully assembled components only.
- 4. Ultimate wear limit 0.005mm is allowable on gauging dimensions.

A1.1. Sizing Gauge



A1.2. Holding Gauge (After conditioning)





APPENDIX 2 – CONTACT INSERTION DEPTH

Positive contact made at 2.5 to 3.0mm depth.

