



11F-14,NO. 100 Chang Chun RD.,104 TAIPEI TAIWAN TEL: +886-2-2563-2546 FAX: +886-2-2523-6678

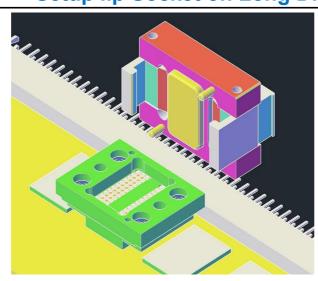
e-mail: jessica@torytech.com.tw

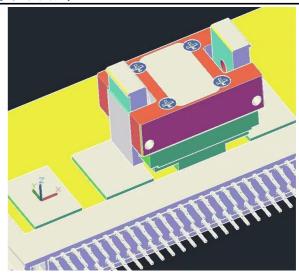
EASY LOCK SOCKET

| Part No. | | ELS-L | ELS-K | ELS-S | ELS-CS | ELS-C | |
|----------|-----------------------------|----------------|----------------|-------------------|------------------|----------------|--|
| 上蓋 | 型式 | 雙扣耳治具 | 旋扭式治具 | 對鎖式治具 | 翻蓋式治具 | 夾具式治具 | |
| M | odel | Setup lip type | Knob type | Screw type | Clam shell type | Clip type | |
| | | 0.000 | SPENIT. | | | | |
| | 上蓋 | PEI卡勾 | 鋁合金 | 鋁合金 | 塑鋼+ PEI卡勾 | 鋁合金 | |
| | Lid | PEI clip | Aluminum Alloy | Aluminum Alloy | Ultem + PEI clip | Aluminum Alloy | |
| 材質 | 壓塊 | | 鋁合金 | 塑鋼 | 鋁合金 | | |
| Material | Pusher | | Aluminum Alloy | Ultem | Aluminum Alloy | | |
| | 上基座 | | 鋁合金 | 塑鋼 鋁合金 | | | |
| | Housing | | Aluminum Alloy | Ultem | Aluminum Alloy | | |
| Оре | 寸温 erating ture Range | | | | | | |
| 接延 | 通方式 | | 導電膠 | | 探針 | 導電膠 | |
| Conta | ct Type | | Rubber | | Pogo pin | Rubber | |
| 車 | 專板 | | | Solder/Solderless | | | |

Setup lip Socket on Long Dimm (帶轉板)

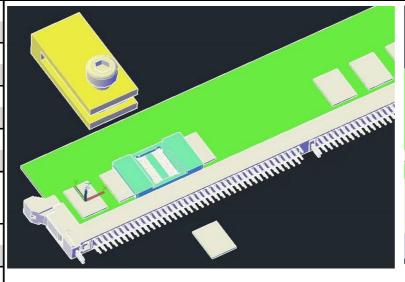
| Par | t No. | ELS-L |
|----------|-----------------------------|-------------------|
| 上蒙 | 型式 | 雙扣耳治具 |
| М | odel | Setup lip type |
| | 上蓋 | PEI卡勾 |
| | Lid | PEI clip |
| 材質 | 壓塊 | 鋁合金 |
| Material | Pusher | Aluminum Alloy |
| | 上基座 | 鋁合金 |
| | Housing | Aluminum Alloy |
| Оре | 讨温 erating ture Range | -40°C~125°C |
| | 五方式 | 導電膠 |
| Conta | act Type | Rubber |
| | 專板 | Solder/Solderless |

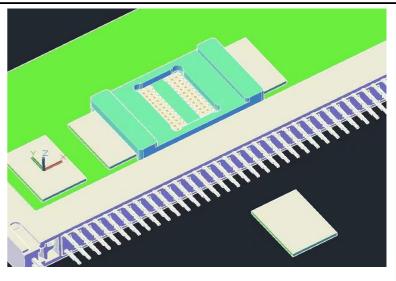




Socket on Long Dimm (不帶轉板 □ 字形)

| 上蓋 | 型式 | 抽屜式治具 |
|----------|-----------------------------|----------------|
| М | odel | Drawer type |
| | 夾具 | 鋁合金 |
| | Clip | Aluminum Alloy |
| 材質 | 壓塊 | X |
| Material | Pusher | X |
| | 上基座 | SP1 |
| | Housing | SP1 |
| Оре | 討溫 erating ture Range | -40°C~125°C |
| 接述 | 五方式 | 導電膠 |
| Conta | act Type | Rubber |
| 車 | 專板 | Х |





使用方法:將治具滑入2片IC之間再用夾具固定

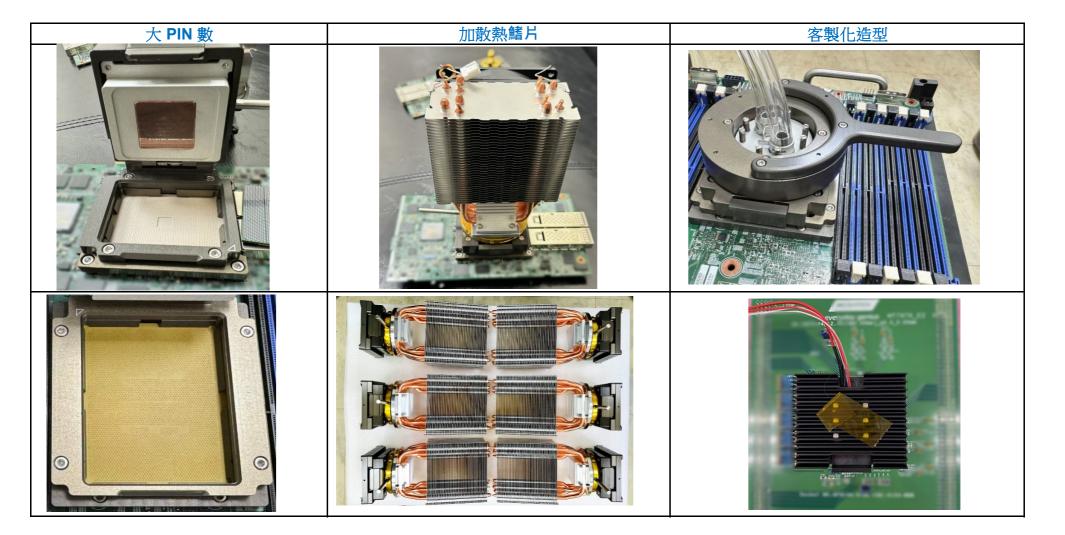
11F-14,NO. 100 Chang Chun RD.,104 TAIPEI TAIWAN TEL: +886-2-2563-2546 FAX: +886-2-2523-6678

e-mail: jessica@torytech.com.tw

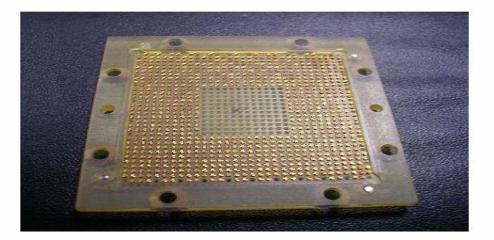
High Pin Count Socket

產品特色:

- 1. 大 pin 數 : 單顆治具可安裝多達 1000~4000pins.
- 2. 客製化的造型及搭配對應的零配件,如:升溫器, Sensor,接地針,電木盒…等等
- 3. 加強散熱: 可搭配 散熱片, 水冷風扇, 以符合AI處理器系列散熱要求.

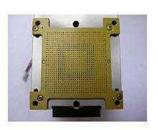


TEST SOCKET







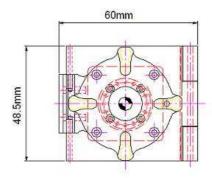


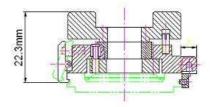






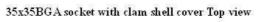
Clam shell cover for IC package size 27-40mm





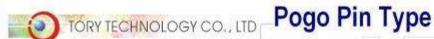
| Socket parts | Material | Mechanical |
|--------------|------------|-----------------------|
| Knob lock | Peek, AL | Life cycle 500K times |
| Frame | AL | |
| Drive Screw | Cu | |
| Pusher | AL or Peek | |



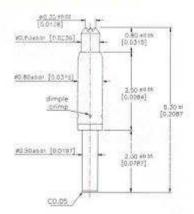




Side view



TR127-0.8-5.3



Electrical measure system

Measuring Equipment

: Agilent 8510C network analyzer. Hewlett-Packard 54750A TDR module

Mechanical Spec.

Spring Force: 1.23oz (34.9g) @ .0197 (0.50mm)

· Recommended travel: .0197 (0.50mm)

Full travel: .0314 (0.80mm)

· Material : Plunger - Hardened BeCu / Au plated

Barrel - Brass / Au plated Spring - Music wire / Au plated Terminal - Brass / Au plated

Electrical Spec.

Current Rating : 2.0A Continuous

· Probe Resistance : Less than 50mohm

Self Inductance : 2.01nH

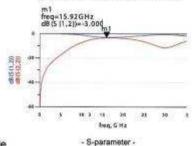
Capacitance : 0.95pF

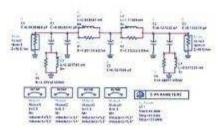
Mutual Inductance: 1.40nH(K=0.5)

· Bandwidth : 15.92GHz

· Propagation Delay: 65.43ps

(Dielectric material: ULTEM1000)





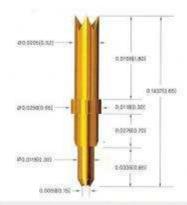
- Equivalent-circuit model -



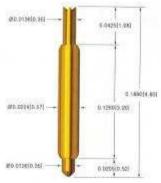
TORY TECHNOLOGY CO., LTD.

Pogo Pin Type

TR08-0.52-3.65



TR10-0.57-4.8



Mechanical Spec.

Spring Force: .71oz (20.15g) @ .0276 (0.70mm).

Recommended travel: .0276 (0.70mm)

Full travel: .0335 (0.85mm)

Material: Plunger - Hardened BeCu / Au plated

Barrel - Hardened BeCu / Au plated

Spring - Music wire / Au ploted

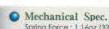
Electrical Spec.

Current Rafing: 1.0A Continuous

Probe Resistance : Less than 50monm

Self inductance : 0.54nH Capacitance: 0.44pF

Bandwidth: 35,05GHz Propagation Delay : 24.41ps



Spring Force: 1.14az (33.0g) @ .0236 (0.60mm) Recommended travel: ,0236 (0.60mm)

Full travel: .0315 (0.80mm)

Material: Plunger - Hardened BeCu / Au plated

Bairel - Phosphor bronze / Au plated Spring - Music wire / Au plated

Electrical Spec.

Current Rating: 1.0A Continuous

Probe Resistance : Less than 50mohrm

Self Inductonce : 0.89nH Capacitance: 0.55pF

Bandwidth: 27,92GHz Propagation Delay: 46,8ps

mJ-1909-27.920Hz dB(S(1,2)] = -2.894

Weg, GB) 5-parameter



S-parameter



Test Report

Inspector : BS Lee

:TR127-0.8-5.3

Model name Test current: 100mA

 Test resolution : 0.1mOhm Test insertions : 200,000 insertions.

: Feb. 28th, 2004

Number of probes : 32 pcs

Maximum test Voltage: 350mV

Test temperature

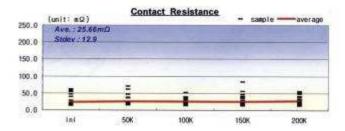
Consequence

Contact Resistance : Ave 25.66mohm (Gold plate to Gold plate)

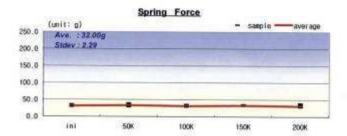
Standard Deviation : 12.9mohm

 Spring Force : Ave32.00g at Recommended travel

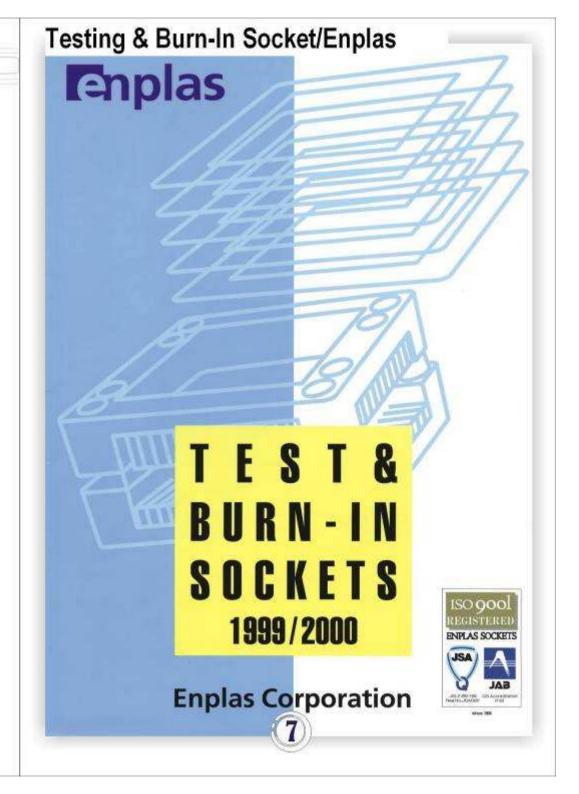
1) Resistance vs. Insertions



2) Spring force vs. Insertions









BALL **GRID** ARRAY



ORDERING PROCEDURE OTB -000-0.00-00 Pilo - Fix Count - Socket Series

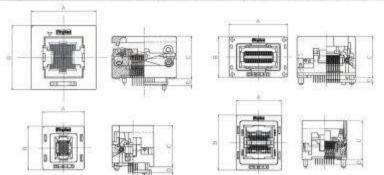
SPECIFICATIONS

Contact resistance: Initial 50 m © (Al 10 xiA) MITIAL Maximum valtage: ACTORY RMS for 1 minutel Insupation resistance: 1,000 M/bit or higher (An DC 500V) Rateo current 1A Coerating temperature range: -65°C~+150°C

Terminal strongth against pulling 0.54g (finin) Insertian, Mir 10,000 limes (mechanical)

MATERIAL Body: PB, PES Contact: BeCo, As plotting (Mi-basis)

APPLICABLE IC DIMENSIONS & SOCKET DIMENSIONS



| PART NE. | | WKI | CABLE IC DIMERSIO | AS PREFJ | | 007 | FRIDE DIME | 36510KS (B | 1.33 | PRIMARIS | | | | |
|--------------------|---------------|-------|-------------------|--------------|---------|------------------------|------------|---------------|------|----------|--|--|--|--|
| | BBDY SIZE | 889 | BOW/AREAY | LEADS NUMBER | PITCE | A : | | 6 | 1 | REMANUS | | | | |
| OTB-80-0.8-01 | 7.83×14.78 | 4×15 | Fully Array | 60 | 0.8 | 17.6 | 25.4 | 18 | 2 | | | | | |
| OT6-48 SERIES (0.7 | 5mm PITCH) | | | | | | | | | | | | | |
| 100000 | 1 | APPLI | CABLE IC DIMENSIO | NS (REF.) | | OUTSIDE DIMERSIONS (RI | | | E) | 32300 | | | | |
| PART NO. | BODY SIZE | 8810 | 80W/30887 | LEARS WINNER | PITCE | A | | 0 | | REMARKS | | | | |
| OT8-48-0.76-01 | 5.76×7.87 | 6×6 | Pully Array | 46 | 0.75 | 15 | 19 | 18 | 2.5 | | | | | |
| OTB Direct RDRAM | SERIES | | | | | | | | | | | | | |
| | | | CABLE IC DIMENSIO | NS (REF.) | | - 90 | TSIDE BIME | RESIDENCE, IR | F.) | 1 | | | | |
| PART NO. | 800Y SIZE | CIRS | 80W/308W1 | LEADS NUMBER | PITCE | A.S. | BS. | 0 | . 0 | HERMIKS | | | | |
| 018-62-08-01 | 11.65×12.02 | 9×6 | Fully Amay | 62 | 1.0×0.8 | 19.5 | 24 | 17 | 2 | | | | | |
| OTB-54(108)-0.8-01 | 10.24 × 9.67 | 9×6 | Depopulated | 54 | 1.0×0.8 | 26 | 26 | 15.4 | 2 | | | | | |
| | 10.50 × 11.00 | b×a. | Deposulated | 54 | 1.0×0.8 | 24 | 20 | 17.1 | 2 | PLAN | | | | |

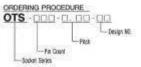




Enplas Socket







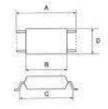
SPECIFICATIONS

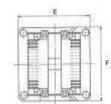
Contact resistance: Initial 30rd G -50m D +100m G (At 10 mA) Maximum vertage: AC700V RMS (for 1 minute) / Below 0.5mm Pitch ACSODY BMS (for 1 minute) Insulation resistance: 1,000M/O or higher (At DC 500V)

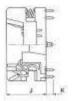
Batad current 1A Operating temperature range: -65°C~+150°C Testinal strength against pulling: 0.5kg (7 min) lesertian: Min. 5,000 times, 10,000 times (mechanical)

MATERIAL Body: PS, PES Consect: BeCu, As plating 56-base)

APPLICABLE IC DIMENSIONS & SOCKET DIMENSIONS





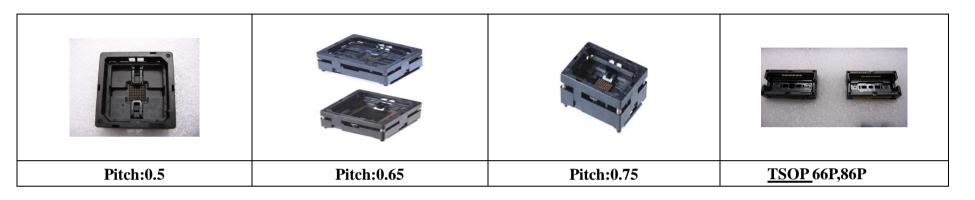


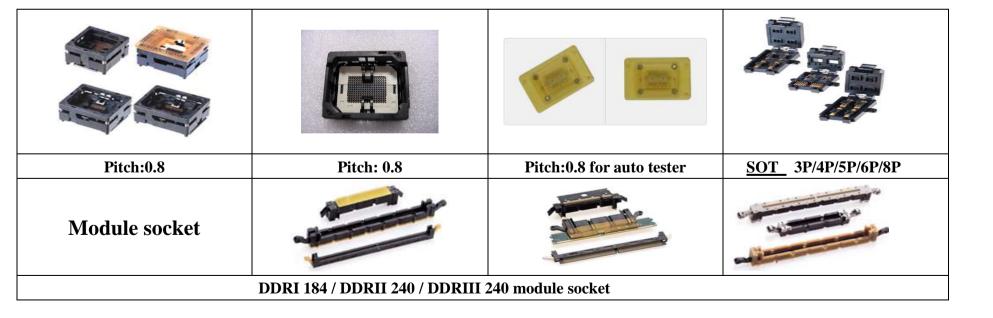




Test & Burn-in Socket

BGA Series: Pitch 0.5,0.65,0.8mm / open top





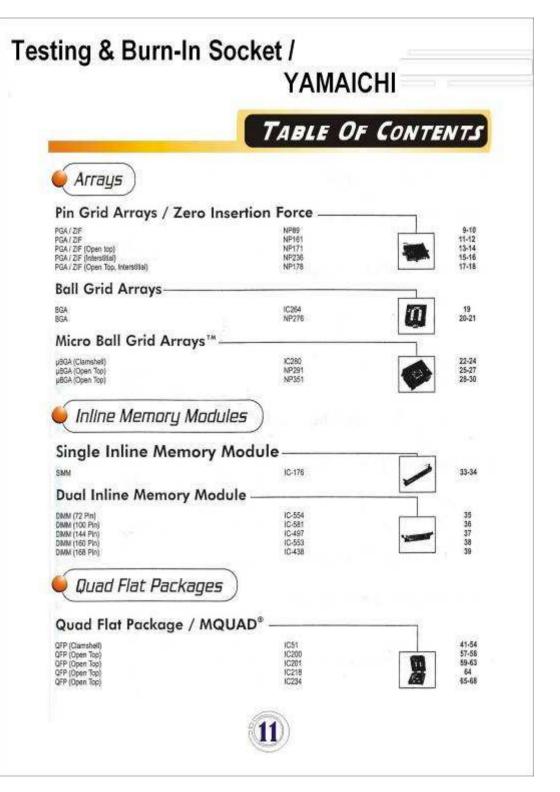
Testing & Burn-In Socket / YAMAICHI

Yamaichi Electronics USA

Company Profile

www.yamaichi.de





Testing & Burn-In Socket / YAMAICHI TABLE OF CONTENTS Quad Flat Packages Plastic Quad Flat Package / Thin Quad Flat Package PQFP (Clamshell) 41-54 TQFP (Open Top) 41-54 Bumped Quad Flat Package-BQFP (Open Top) IC211 Plastic Lead Chip Carrier PLCC (Clamshelf) PLCC (Open Top) IC120 74-76 Leadless Chip Carrier LCC (Clamshell) LCC (Open Top) Tape Carrier Package / Tape Automated Bonding 78-82 Known Good Die IC51 83 Molded Carrier Ring IC225 84 Small Outline Package Small Outline J-Lead Package SOJ (Dead Bug) SOJ (Live Bug) IC107 89 SOJ (O.8mm Pitch) IC356 Small Outline Package IC51 91-103

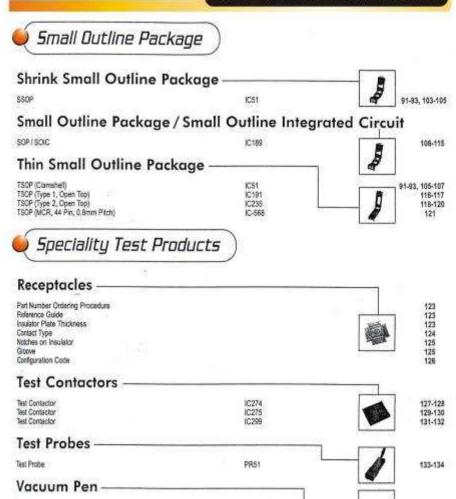
Testing & Burn-In Socket /

Vacuum Pen

YAMAICHI

TABLE OF CONTENTS

135



Testing & Burn-In Socket / TI



SENSORS & CONTROLS : PRODUCTS

CONTROL PRODUCTS

IC Test & Burn In Sockets



BGA series



CSP series: Chart 0.5mm - pitch



KGD series



LGA series

PGA series



QFP series



SOJ series: SOJ LIF SOJ ZIF



SOP series: Chart



TSOP series: Chart Carrier Non - Carrier Sensors & Controls > Products > Controls >

IC Test and Burn - In Sockets

Updated August 9, 2004

Solutions for the industry's most demanding IC burn - in and test requirements.

At Texas Instruments, we are accelerating new chip - packaging technologies. We create custom - engineered and core testing solutions for the semiconductor and electronics industry to:

- Ensure Quality
- Boost Yield
- Increase Productivity

At A Glance...

- Solutions for virtually any IC burn in and testing requirement with our proven global deployment.
- An extensive portfolio of existing burn in test sockets to satisfy state-of-the-art customer applications.
- Innovative and wide ranging design capabilities to support next generation package road map requirements.

Texas Instruments (TI) offers a wide range of burn - in sockets to

- handle package styles servicing the memory, micro processor, ASIC, and logic businesses.
- Our efforts are supported by an advanced analysis and computational development laboratory. TI laboratory technology focuses on streamlining our customers' engineering design processes.





Coaxial / INGUE

Coaxial HF Test Probe, 50Q, 4GHz

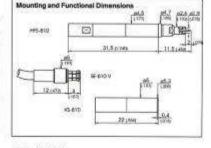
Installation Height: 11,5mm (.463)

mended Stroke: 4.0mm (.157)

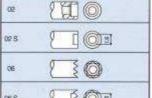
HFS 810

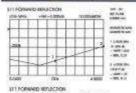
| | Available Tip Styles | | | | | | |
|---------|----------------------|----------|-----------|---------------|--|--|--|
| Michael | Tp.56Ai | Standard | So Ver | edal sions | | | |
| _ | | Pleang | Øm. | g3 incht | | | |
| 2 | 01 2 20,51 | A | | | | | |
| 3 | 05 (000) | A | | | | | |
| 3 | 06 do,80 | A | | | | | |

heter Conductor replaceable: Ordaring Sumple: 08/3-051 201 051 A 1000



Available Tip Styles: Outer Plunger Duler Plumper record against mission







Ordering Example

Working Stroke:

4,0 mm c 1570 Max. Working Stroke: 5.0 mm/ ten

Spring Force at Working Stroke: Quier Conductor: 4.0N /14 4 (2.) Inner Conductor: 1,3N (4.7 oz.)

Operating Temperature: -40 up to +80 °C

Electrical Data

5,08 mm

200 MII

up to 4 GHz Frequency Range: Current Rating Outer Conductor: Inner Conductor: 23A R typical: Inner Conductor: ≤ 10 mΩ: mpedance Test - Probe: 50.00

Impedance - Cable: Mounting Hole Size

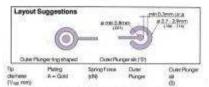
Ø 4.98-4,99 mm (196-197) with Receptable: without Receptable: Ø 4,5 mm (177)

Materials: Inner Conductor

BeCu or Steel, gold-plated Plunger: Barret: Bronze, gold-plated Spring: Steel, gold-plated

Materials: Outer Conductor

Plunger: BeCulor Brass, gold-plated Basel: Brass, gold plated Spring Stainless Steel insulation: Receptacle: Brass



Test Probawith flat Outer Plunger: Test Probe with senated Outer Plunger. MCX-Plug pre-wired (Cable RG 316/U): Receptacle

HFS 810 2 01 051 A 53 HFS 810 2 01 051 A 53 06 S E = 8 1 0 V U S E - 8 1 0 V (for usage in Grid 5.08mm (200mit) K S - 8 1 0

All specifications are subject to-change without prior notification





RF Connector/ HIROSE

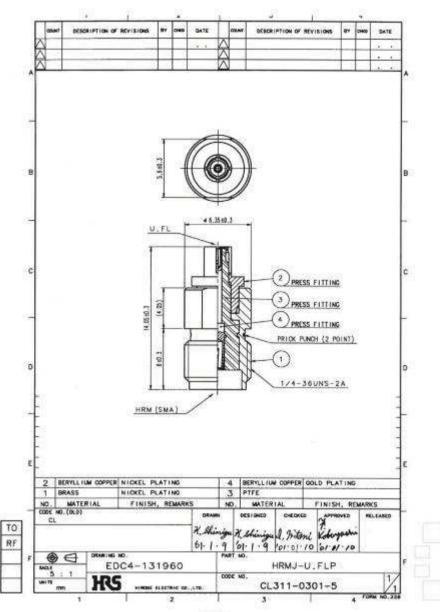
| COUNT | DESCRIPTION | N OF REVISI | ONS | BY | CHIKO | DATE | | COUN | T DESCRIPTION O | F REVISIONS | BY | CHAD | DAT | TE. |
|--|----------------------------|--------------------------------------|---------|-------|---------------|------------|--|------|---|------------------------|-------|--------|-------|-----|
| Δ | | | | 30 | | | Δ | 6 | 3 | | | | - | |
| Δ | | | | | | i- | Δ | | 3 | | | | | |
| APPLICA | BLE STAN | DARD | | | | | | | | | | | | |
| | OPERATING | | -40% | 2 70 | +85* | C/95%RH | CYARK! | STO | ORAGE -40°C TO +85°C/SON | | | | DWW | ev. |
| | TEMPERATUR | E HANGE | - 100 | 9.15 | , | 100 | Tiescol | OW | PERATURE RANGE | | - | - | - | - |
| RATING | POWER | | | | _ | _w | - | 342 | EDANCE LICABLE | 500(| 0 1 | 0 5 | GH | 2) |
| | PECULIARIT | Y | - | - | | | | CAL | | 10 mm | | | | |
| | | | | | SI | PECIF | ICA | TIO | NS | | | | | |
| - 4 | TEM | 101 | | TE | STMET | | | - | 1 | QUIREMENTS | 51. | _ | ОТ | T. |
| | RUCTION | - | | - | - | | _ | _ | Total Total | a proteine in it | - | | 1.91 | 1.0 |
| - | CAMINATION | VISUALLY | AND BY | MEA | SURING | INSTRUME | NT. | | ACCORDING TO DE | RAWING. | | | 10 | To |
| MARKING | | CONTRM | ED VISU | ALY | | | | | | | | | F | 13 |
| FLECTE | IC CHARA | CTERIS | STICS | | _ | | | | | | 1 | - | | |
| | ESISTANCE | COLUMN SAFETY AND THE PARTY NAMED IN | MA MAX | - | DR 1000 | Hot | | | CENTER CONTACT | 10 | ms2 f | WAX | To | 10 |
| | | | | | | | | | OUTER CONTACT 10 mg MAX | | | | ŏ | |
| NSULATION | RESISTANCE | 100 | V DC. | | | | _ | _ | 500 MOMP | NO MIN. | | | | |
| VOLTAGE P | ROOF | 250 V A | C FOR 1 | min. | CURREN | IT LEAKAG | E 2mA | MAX | NO FLASHOVER OF | FLASHOVER OR BREAKDOWN | | | | |
| VOLTAGE S | | FREQU | IENCY | 0.0 | 45 TO | 5 GH | 2 | | VSWR 1. 2 | MAX | | | 0 | - |
| WAVE RATIO | | FREQU | | 0,000 | то | - CH | _ | | S23305 3254 | | | | 10 | 1 |
| | | - | ENLT | _ | 10 | G. | 12 | _ | | dB MAX | | | - | - |
| | AL CHARACTI BERTION AND | | 4000 | +0.0 | | | | - 1 | EXTRACTION FOR | OE 15 4 41 | 9 N | _ | In | Lo |
| EXTRACTION FORCES | | [U.FL] | | | | BY STEEL (| National Association of the Party of the Par | _ | EXTRACTION FOR | | 100 | (1) | 0 | |
| INSERTION AND | | | | | | NVECTOR | | - | INSERTION FORCE | | | 4AX | 10 | 10 |
| WITHORNWAL FORCES | | | 3000 | | | | | | EXTRACTION FA | 11. | - | MX. | 1 | 1 |
| MECHANICAL OPERATION | | 500 TW | €5 NSE | RTK | NIS AND | EXTRACT | IONS. | | (1) CONTACT RES | STANCE: | 12/57 | - | - | 1 |
| | | | | | | | | | DUTER CONTACT 15 INCRMAX.CHANG DUTER CONTACT 15 INCRMAX.CHANG © NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | CHANGE | | - |
| VIBRATION SHOOK | | FREQUEN SINGLE AN | | | 100 | n, m | We ² | | ① NO ELECTRICAL DESCONTINUITY OF #18. ② NO DAMAGE, CRACK AND LOGISTHESS OF PARTS. | | | | - | - |
| | | 1 m | ME DIRE | OTK | INS OF | | me. | | | | | | | t |
| CABLE CLAN | | APPLYING | APULL | POR | | CABLE AXX | ALLY | | (I) NO WITHDRA | WAL AND BREA | KAGE | QF | | |
| ROBUSTNES LAGAINST C | | AT | N MAN | 8 | | | | | CABLE. 2 NO SPEAKAGE OF CLAMP. | | | | 100 | - |
| AND DESCRIPTION OF THE PARTY. | NMENTAL | CHARA | CTE | DIS | TICS | _ | _ | _ | LS un management | OF CLAMP | | | 1 | - |
| DAMP HEAT | CONTRACTOR DESCRIPTION | | AT -1 | 0 T | 0 +65 | *C, 90* | ~96 ' | • | INSULATION RESISTANCE: 10 MG MIN. IAT HIGH HUMBERTY) SULATION PRESISTANCE: 500 MG MIN. IAT ONLY IN DAMMAGE, CRACK AND LOGSEMESS OF PARTY. | | | | 0 | - |
| RAPD CHANGE OF TEMPERATURE -40 -5-35 46 TEMPERATURE 30 3 30 UNDER 5 GYOLES. | | | | | | | NO DAMAGE, CRACK AND LOCKENESS OF PARTS. | | | | 0 | - | | |
| CORROGION SALT MIST EXPOSED IN 5 % SALT WATER SPRAN | | | Y FOR | | NO HEAVY CORR | OSION | | | 0 | - | | | | |
| REMARKS | | 1 48 h | | | _ | | DE | RAWN | DESIGNED | CHECKED / | APPRO | VED | HELEA | sen |
| I believe est | herwise spe | rifact re- | for to | ne. | 0.540 | , | H. 2 | hing | X. Shiniyee S | , mitaria K | ا | نس | | |
| | | | | | | | | | | | | | | |

| 7. | - | | ζ. | |
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| 19 | Ł | ų | Ø | X |
| 100 | | | 1 | |

CL311-0301-5

ELC4-131960







Ball & Flux For BGA

- High Quality & High Tech ----



網徵部品焊接使用BGA、MCM、CSP · CO8.....ETC +

備筆量5000KK以上,在台頭貨供應。



干住特別開發訪靜電包裝ESD Bottle。 源少過度包裝。縮小體積以利存放取用 提供保存期間及運送安定之品質



BGA 専用FLUX更流、水洗TYPE對應不 阿襲程需要,各式點度、顧色及包裝可 滿足各式盪佈工程。



63/37・10/90各式高低温含銀建設 球徑0.1mm~0.35mm (公差10 x m) 球徑0.4mm~0.76mm (公差20 x m) Glass Package内含不活性氣體,防止 氧化,提供穩定品質。



千件特別開發ECO SOLDER · 保護的 球環境的無鉛焊材系列。高信賴性、



ED刷鋼板塞孔清除劑NON-STOP 90/96 經日本SONY指定使用,輕點廣測版值

千住錫球 SENJU

BGA用高精度、高純度錫球適合各式細微部品焊接使用BGA、 MCM、CSP、COB、FC...etc。本公司備庫量5000kk以上,在台現貨供應。

| | 非径(mm) | 珠径(mil) | 表 差 (mm) |
|------------------|---------------|---------|----------|
| 63/37 | 0.127mm | (5mil) | ±0.01mm |
| 63/37 | 0.15mm | (6mil) | ±0.01mm |
| 63/37 | 0.25mm | (10mil) | ±0.01mm |
| 63/37 | 0.3mm | (12mil) | ±0.01mm |
| 63/37 | 0.35mm | (14mil) | ±0.02mm |
| 63/37 | 0.4mm | (16mil) | ±0.02mm |
| 63/37 | 0.45mm | (18mil) | ±0.02mm |
| 63/37 | 0.5mm | (20mil) | ±0.02mm |
| 63/37 | 0.55mm | (22mil) | ±0.02mm |
| 63/37 | 0.6mm | (24mil) | ±0.02mm |
| 63/37 | 0.65mm | (26mil) | t0.02mm |
| 63/37 | 0.76mm | (30mil) | ±0.02mm |
| 63/37 | 1:0mm | (40mil) | ±0.02mm |
| 62/36/2 | 0.3mm | (12mil) | ±0.01mm |
| 62/36/2 | 0.4mm | (I6mil) | ±0.02mm |
| 62/36/2 | 0.5m | (20mil) | ±0.02mm |
| 62/36/2 | 0.76mm | (30mil) | ±0.02mm |
| Sn10-Pb90 | 0.5m | (20mil) | ±0.02mm |
| Sn10-Pb90 | 0.76mm | (30mil) | ±0.02mm |
| Sn90-Pb10 | 0.5mm | (20mil) | ±0.02mm |
| Sn90-Pb10 | 0.6mm | (20mil) | ±0.02mm |
| #295(高温錫球) | 0.5mm | (20mil) | ±0.02mm |
| #295(高温錫球) | 0.76mm | (30mil) | ±0.02mm |
| #139(高温錫 球) | 1.0mm | (40mil) | ±0.02mm |
| #240 (高温 錫珠) | 1.0mm | (40mil) | ±0.02mm |
| #7050 (高温 講珠) | 0.5mm | (20mil) | ±0,02mm |















V9025 / V9038 / V9013-ESD

- A. 防靜雷材質
- B. 適用於-55°C~+230°C
- C. 尺寸有:3mm、6.3mm、9.5mm、12.7mm



SMD-VAC-GP

- A. 通用型真空吸筆台
- B. 緊固耐用的結構設計
- C. 附6支吸筆頭
- D. 符合ESD規格
- E. 操作時無干擾,可供應 100V或 220V



V8920E-X-ESD

- A. 中長型級筆(長:127mm)
- B. 200g以下吸力
- C. 鋁製柄身,符合ESD規格
- D. 附6支吸筆頭



HV-4P

- A. 簡易型級筆 (長:69.85mm)
- B. 符合ESD規格
- C. HANDI經濟型
- D. 附4支吸筆頭



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