

¡mÍíç@¡@®t®Éí¡-B®É¾É½u³q±`³17±ø±µ½u¡A“Cç@±ø±µ½u³£·¥]
§t±`wÀYØ,ô;n



3]pxxmu{®v³l±`I`i^ao°Y~AD¤§¤@{A'N~O²yAI~x°},,}j]
 BGA;^“E, E^ao±“ú;CAHμU~t²l±K<“x^ao‘f°
 ^©MPCB¹/4h¹/4Æ¶q^ao¹/4W¥[;A·U~Ó·U|h^ao«H, !¥u~à±qBGA«E, E
 breakout via
 pattern;^“ú±o;C±“ú³o“ç«H, ^ao¶ç²l¤è^ak;A¬O¥H¤â°
 E^ao¤è;¡Åý±°
 wÀY±µÄ²Aá³q¤O;C³o¶µ³/4P§@«D±`§xÅø;A¹i©ó±`n°
 Õ!æ[n|h!, ^aoÅPçè¤À^aR»ö¶q‘ú“Ó};“Å¤£;X³/4A;C“ÍYl^aý¥§½u²k±
 damped wire solder down;^“t¥ó;A¥i¥H, N“M³oÓ°Y~AD;C

|b@Ó|³aº- B°É¾É½u°tÝó¤¤;Aºý¥§½u°
tÝó`f°N¤F³l¤jº³s±μ¹¼u@É;AÝ|ÝiH³s±μ°iÝØ¹¼D¤W·¤pºo- S@
feature;^ÝH§Q±°ú;Cºý¥§½u°tÝºaº|yºÝ¥|§t¤@ -
Óºý¥§¹qºý;AÝiÝH±NÝØ¹¼D©M1¹¹q½uºaº¹q®e¹j¶}ºÓ;CÝ¤]

- à°§C|bÅPjè¤ÀªR»ö'ú, Õ±'Í¥[¤JÃB¥~¤o-

$y \propto \phi^{-\alpha} \times (\bar{E} \propto \bar{\rho} \mu_0 \propto \bar{S} \propto \bar{V}^2 / \bar{B} \propto \bar{M}^2 k \propto \bar{E}^2 / \bar{f})$

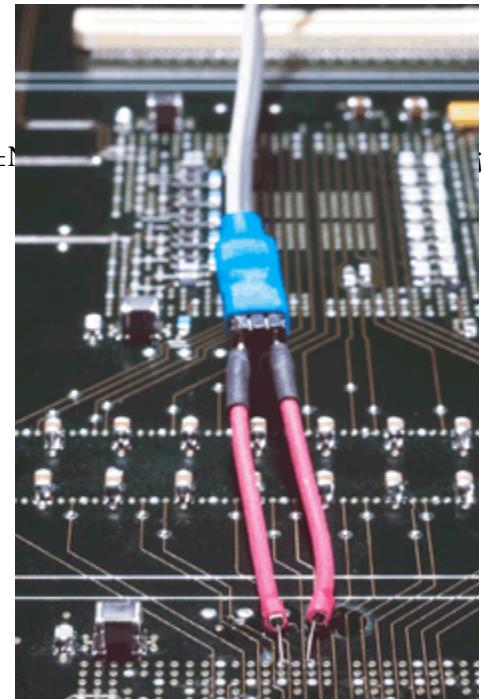
¡Ó¥»¹ÍÀåÙÜ²k±µ·b¶;¡Z¬°¹mmºoBGA¤À½uÁá³q¤Ó¤§ªý¥§½uºt¥Ó;Cºt¥Ó;]
¬ó|â;^¥i½±µ·Æ¤J±°wÀY;]ÂÅ|â;^aº'¡®y¤¤;C¡Ö

SMT¤, ¥óao§KYÎ¤â±'ú, Ñ..M¤è®×

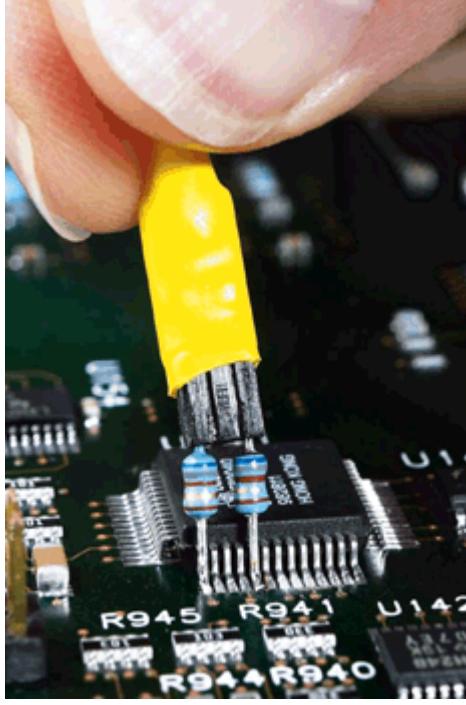
ՅԱՌԱՐԱՐՈՒԹՅՈՒՆ ԵՎ ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ

|P¶b¹qºý|]82?;^ao³/4É½uμô³/4A·íaoøφ«×«á;A§YYi'¡¤J- B°
Ê³/4É½u¹yºYao';@y;A0±μμÛ|A±N¹qºý²k±μ`íPCB¤W±aoSMT¤,¥ó;C³o-
Ó¹qºý¥ÍYH±N¥Ø¹/4Ð»P- B°Ê³/4É½u¹yºY';@yao¹q@e¹j¶}
¡A"~Ä¥B|b¥Ø¹/4Ð¤W`£"Ñ¶È0.9 pFao|t,ü;|"ú" M©ó"Í¥Îao¹qºý«~½è;|^C

|m| \ddot{I} \ddot{x} G; @|b|C|O|^3- B^{\circ}\bar{E}^{3/4}\bar{E}^{1/2}u^{\circ}



|mÍxT;@|P¶b¹g²y³ao|yºY|±μÄ²Ó§Oao«Ê,Ë±μ,|
|A|Ó¤£·,ó|V¬Ü³/⁴Fao±μ,}in



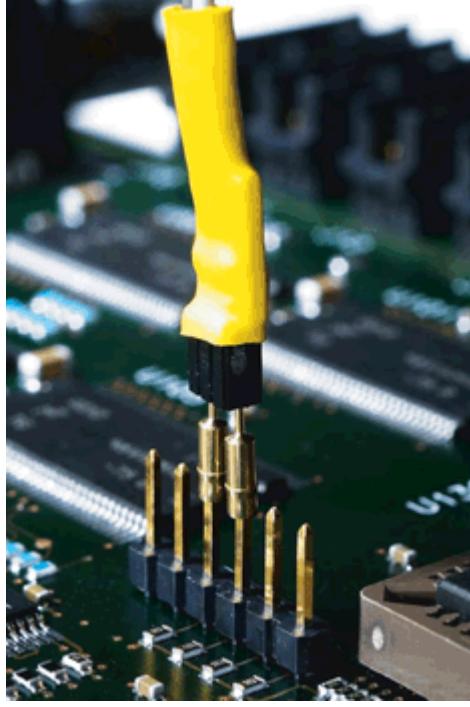
³S±μ[·]Y²{!^3aoÅP;è¤À^aR»ö^oP®y;]¶Ç²Î«¬;^

³æœ@, `ÃIú, Õ^{a03}]p

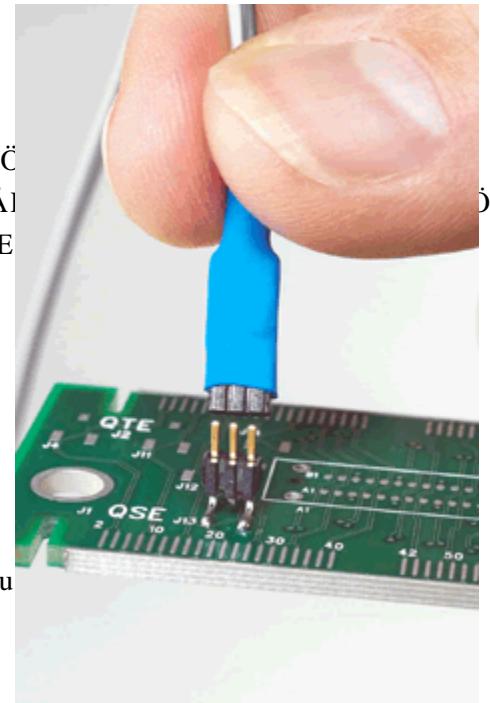
$\textcircled{R} t^0 \hat{E} \textcircled{j} - B^0 \hat{E}^{3/4} \bar{E}^{1/2} u^2 \tilde{O} \textcircled{x}] \textcircled{Y} i \textcircled{Y} \hat{I} \textcircled{O} \pm' \textcircled{U}^3] -$
 $p^n a^o \ll H, \textcircled{1} A | p |^1 \textcircled{Y} \hat{I}^a \textcircled{j} \ll K \textcircled{Y} i \textcircled{Y} H | b P C B Y | \odot P^3] -$
 $p^3 \textcircled{x} \textcircled{x} @ \textcircled{A} I^a \textcircled{U}, \tilde{O} \hat{A} \textcircled{j} A \textcircled{s} @^a k \neg O \textcircled{Y} \hat{I} \textcircled{R} t^0 \hat{E} \textcircled{j} - B^0$
 $\hat{E}^{3/4} \bar{E}^{1/2} u^2 \tilde{O}^a \textcircled{Y} \textcircled{y} \textcircled{Y} \textcircled{j} \textcircled{Y} i \textcircled{Y} \textcircled{a} \textcircled{1} / 2 \pm \mu \textcircled{R} M \textcircled{x} J^a \textcircled{x} T \pm \mu, \textcircled{Y} \textcircled{P} \textcircled{R} y \textcircled{j} C$

¤T±μ, }°P®y¥Dn·í§@¶C²ÍºSMT±μÀY·Í¥Í;A³o-
Ó±μÀYYÍ,m©ó¥Ø¼ÐPCBº¤£|P|Í,m;C®t°È|j- B°
È¾É½u¥Ía¹±μ®M¤JºP®y;C|b¾±ñ- S©È¤W;A¤T±μ, }
°P®y'£'~Ñ¤F¤ñ²k±μ¤èªk§ó¬°¥í¾aºo³s±μ;A|P®É¤]
'£'~Ñ|b¥Ø¼Ð¤W¼sªx'²§G±'úÀÍaº¹u©È;C(¹Í¤)Åå¥Ü·Í¥Í¤T±μ, }
°P®yºo¹d"Ò;C¹Í¤Åå¥Ü,m©ó¥Ø¼ÐPCB¤Wº¤T±μ, }°P®y¤Í±'°
wÀY³s±μº¤è|;|A³Í«á·~Ä§¹ººo³s±μ;C'N¹q®ð- S©È|Ó·¥;A¤T±μ, }°P®yºt¥ó;]
¥]§tºí±ÀHμÛº÷ÄY±μ±;|^b¥Ø¼Ð¤W'£'~Ñ¶È1.0 pFº¤μ¥®À¹q®et, ü;C

μ^{2»y}



jm!l@T±μ,
Φ®y³s±μ,A|b¥Ø!4D¤W'£·Ñ¶È1.0
pF^aμ¥®Ä¹q®et,ü;jn



¤f¥²³á¤ß³s±μ³Q◎j²¤^a«H,¹;A¥H¤¹w¹i³o^{..}C«H,¹°õ¤^a3l¤jAW¹/4e¶q'ú^aoo
ÝÄD¤F;¹C¹]§@^al¥ôÅ³¤¹o^{..}w±¶Û¬ì§P;¹^



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