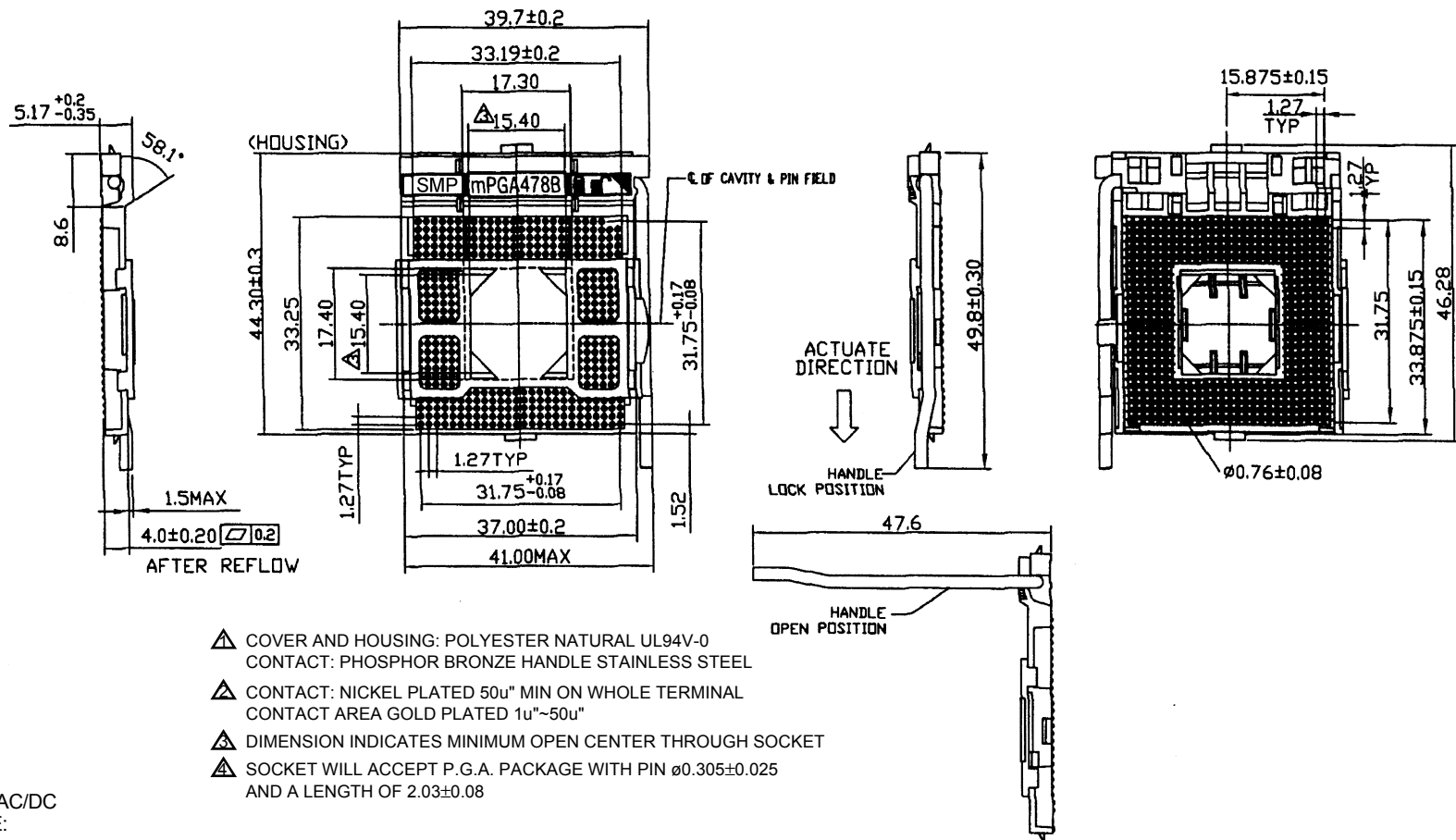




- △ COVER AND HOUSING: POLYESTER NATURAL UL94V-0  
CONTACT: PHOSPHOR BRONZE HANDLE STAINLESS STEEL
- △ CONTACT: NICKEL PLATED 50u" MIN ON WHOLE TERMINAL  
CONTACT AREA GOLD PLATED 1u"~50u"
- △ DIMENSION INDICATES MINIMUM OPEN CENTER THROUGH SOCKET
- △ SOCKET WILL ACCEPT P.G.A. PACKAGE WITH PIN  $\phi 0.305 \pm 0.025$   
AND A LENGTH OF  $2.03 \pm 0.08$

#### ELECTRICAL:

CURRENT RATING: 1A AC/DC

CONTACT RESISTANCE:

< 20 Milliohm Max.

INSULATION RESISTANCE:

> 1,000 Megaohm Min.

DIELECTRIC WITHSTANDING VOLTAGE:

600V AC (rms) Min. for 1 Minute

OPERATING TEMPERATURE: -55°C to +125°C

CAPACITANCE: 2pF Max.

#### MATERIAL:

INSULATOR MATERIAL: LCP UL94V-0

CONTACT MATERIAL: Phosphor Bronze

CONTACT PLATING: Gold Plating over Nickel Plating

#### MECHANICAL:

INSERTION FORCE: Zero

WITHDRAWAL FORCE: 340g Min.

#### HOW TO ORDER:

Z F 4 1 - 4 7 8 1 - 1 0 X - Z

NUMBER OF CONTACTS:

478

INSULATOR MATERIAL:

1 - LCP

SELECTIVE PLATING:

1 - Au FLASH CONTACT AREA

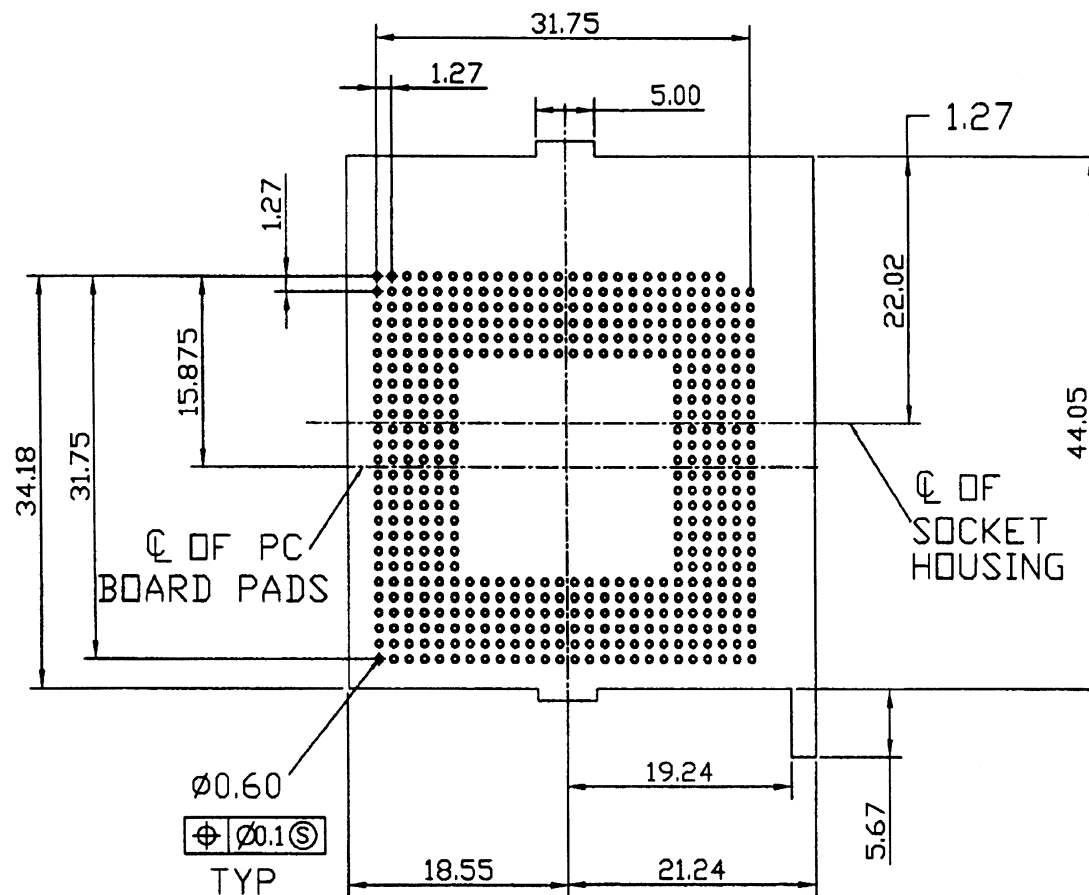
2 - 10u" Au CONTACT AREA

3 - 15u" Au CONTACT AREA

4 - 30u" Au CONTACT AREA

RoHS COMPLIANT

|           |                             |               |              |                      |                                   |
|-----------|-----------------------------|---------------|--------------|----------------------|-----------------------------------|
| Rev       | Description                 | Apv.          | Date         | SMP TECHNOLOGY, INC. |                                   |
| 0         | Issued                      | A.M.          | 11/06/02     |                      |                                   |
| A         | Revised For RoHS Compliance | A.M.          | 1/10/06      |                      |                                   |
|           |                             |               |              |                      |                                   |
|           |                             |               |              |                      |                                   |
| SCALE     |                             | MAT'L         |              | FINISH               |                                   |
|           |                             |               |              | mPGA 478 Pin         |                                   |
| TOL. DEC. | X.X +/- 0.35                | X.XX +/- 0.15 | ANGLE +/- 1° | UNIT: mm             | SERIES: ZF41- 4 7 8 1 - 1 0 X - Z |
|           |                             |               |              |                      | Pg: 1                             |



RECOMMENDED P.C. BOARD LAYOUT

**ELECTRICAL:**

CURRENT RATING: 1A AC/DC

CONTACT RESISTANCE:

< 20 Milliohm Max.

INSULATION RESISTANCE:

> 1,000 Megaohm Min.

DIELECTRIC WITHSTANDING VOLTAGE:

600V AC (rms) Min. for 1 Minute

OPERATING TEMPERATURE: -55°C to +125°C

CAPACITANCE: 2pF Max.

**MATERIAL:**

INSULATOR MATERIAL: LCP UL94V-0

CONTACT MATERIAL: Phosphor Bronze

CONTACT PLATING: Gold Plating over Nickel Plating

**MECHANICAL:**

INSERTION FORCE: Zero

WITHDRAWAL FORCE: 340g Min.

|           |                              |               |              |          |                      |
|-----------|------------------------------|---------------|--------------|----------|----------------------|
| Rev       | Description                  |               | Apv.         | Date     | SMP TECHNOLOGY, INC. |
| 0         | Issued                       |               | A.M.         | 11/06/02 |                      |
| A         | Revised For RoHS Complianace |               | A.M.         | 1/10/06  |                      |
|           |                              |               |              |          |                      |
|           |                              |               |              |          |                      |
| SCALE     |                              | MAT'L         | FINISH       |          |                      |
| TOL. DEC. | X.X +/- 0.35                 | X.XX +/- 0.15 | ANGLE +/- 1° | UNIT: mm | Pg: 2                |