



| REV. | DESCRIPTION | BY | DATE |
|-------|---------------------|------------|----------|
| ORIG. | DRAWING ISSUE | SANDY CHEN | 98.11.12 |
| A. | CHANGE D AND E DIM. | SANDY CHEN | 99.05.03 |
| B. | ADD NOTES | SANDY CHEN | 00.01.21 |

| SYMBOL | DIMENSION IN MM | | | DIMENSION IN INCH | | |
|--------|-----------------|------|------|-------------------|-------|--------|
| | MIN. | NCM. | MAX. | MIN. | NCM. | MAX. |
| A | | | 3.40 | | | D 1.34 |
| A1 | 0.25 | | | 0.01 | | |
| A2 | 2.55 | 2.80 | 3.05 | 0.100 | 0.110 | D 1.20 |
| b | 0.17 | 0.20 | 0.23 | 0.007 | 0.008 | 0.009 |
| c | 0.15 BASIC | | | 0.006 BASIC | | |
| e | 0.50 BASIC | | | 0.020 BASIC | | |
| D | 24.80 BASIC | | | 0.976 BASIC | | |
| D1 | 20.00 BASIC | | | 0.787 BASIC | | |
| E | 18.80 BASIC | | | 0.740 BASIC | | |
| E1 | 14.00 BASIC | | | 0.551 BASIC | | |
| L | 1.00 | 1.20 | 1.40 | 0.039 | 0.047 | 0.055 |
| L1 | 2.4 REF. | | | 0.094 REF. | | |
| R1 | 0.13 | | | 0.005 | | |
| R | 0.13 | | 0.3 | 0.005 | | D 0.12 |
| theta | 0 | | 7 | 0 | | 7 |
| theta1 | 0 | | | 0 | | |
| theta2 | 5 | | 16 | 5 | | 16 |
| theta3 | 5 | | 16 | 5 | | 16 |
| JEDEC | | | | | | |

△ *NOTES : DIMENSIONS " D1 " AND " E1 " DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS 0.25 mm PER SIDE. " D1 " AND " E1 " DO INCLUDE MOLD MISMATCH.

| | | | |
|--|--------------------------|-------------------------------------|--------------|
| CWT Chant World Technology Inc. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | ANGULAR ± 1° |
| | XXXXX ±0.005 | XXXXX ±0.005 | ROUGHNESS |
| TITLE QFP 12BL PACKAGE OUTLINE | XXXXX ±0.05 | XXXXX ±0.1 | SCALE |
| BODY:14X20MM (4.8MM FOOT PRINT) | XX. ±0.2 | | |
| DESIGNED Jason Chang 98.11.12 | UNIT | QTY | |
| CHECKED C.C. CHO 00.01.27 | FILE NAME : P7F128P4 | | A3 |
| APPROVED C.C. CHO 00.01.27 | DWG. NO.: CW-P7-009C | | |