

# GaAs PA Module for Mobile Telephone

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### ● Lineup per Destination and Specification

| Division   |              | System      |                        | Analog             |           |           | Digital     |          |                     |                  |          |              |
|------------|--------------|-------------|------------------------|--------------------|-----------|-----------|-------------|----------|---------------------|------------------|----------|--------------|
| Capacity   | Package (cc) | Destination | Frequency (MHz)        | JAPAN              | U.S.A.    | U.K.      | JAPAN       |          |                     |                  |          |              |
|            |              |             |                        | NTT/IDO            | AMPS      | E-TACS    | JDC1        | JDC2     | PHS Portable Device | PHS Base Station | DECT     | Wireless LAN |
|            |              | No.         | 915 ~ 942              | 824 ~ 849          | 872 ~ 905 | 940 ~ 956 | 1429 ~ 1441 | 1.9GHz   |                     | 1881 ~ 1897      | 2.4GHz   |              |
| PA Module  | 0.9          | D86         | V <sub>DD</sub> = 4.6V | —                  | UN063     | UN064     | —           | —        | —                   | —                | —        | —            |
|            | 0.4          | D87/D89     |                        | UN00401            | UN00403   | UN00404   | UN0045F     | UN0045H  | —                   | —                | —        | —            |
|            | 0.4          | D87/D89     | V <sub>DD</sub> = 3.5V | UN0030E<br>UN00301 | UN00303   | UN00304   | UN0036F     | ▲UN0036H | —                   | —                | —        | —            |
| Power MMIC | SD-10A       | D73         | 3.5V                   | —                  | —         | —         | —           | —        | GN05002             | —                | GN05004N | GN05005N     |
|            | SO-10D       | D88         | 4.6V                   | —                  | —         | —         | —           | —        | —                   | GN05009N         | —        | —            |
|            | SSOF-10D     | D84         | 3.5V                   | —                  | —         | —         | —           | —        | GN05008N            | —                | —        | —            |

▲Under development

### ● Type No. Characteristics List

| Type No. | Destination | f (GHz)          | P <sub>o</sub> (dBm) | P <sub>in</sub> (dBm) | V <sub>DD</sub> (V) | V <sub>G</sub> (V) | I <sub>DD</sub> (mA) | Package | No.              |     |
|----------|-------------|------------------|----------------------|-----------------------|---------------------|--------------------|----------------------|---------|------------------|-----|
| Analog   | UN063       | AMPS             | 0.8                  | ≥30.5                 | 7                   | 4.6                | -3.5                 | <460    | PAM09-1<br>0.9cc | D86 |
|          | UN064       | E-TACS           | 0.9                  | ≥30.5                 | 7                   | 4.6                | -3.5                 | <460    | PAM09-1<br>0.9cc | D86 |
|          | UN00401     | NTT/IDO          | 0.9                  | ≥30.5                 | 7                   | 4.6                | -3.5                 | <460    | PAM04-2<br>0.4cc | D89 |
|          | UN00403     | AMPS             | 0.8                  | ≥30.7                 | 7                   | 4.6                | -3.5                 | <460    | PAM04-2<br>0.4cc | D89 |
|          | UN00404     | E-TACS           | 0.9                  | ≥30.7                 | 7                   | 4.6                | -3.5                 | <460    | PAM04-2<br>0.4cc | D89 |
|          | UN0030E     | NTT/IDO          | 0.9                  | ≥30.3                 | 7                   | 3.5                | -3.6                 | <570    | PAM04-1<br>0.4cc | D87 |
|          | UN00301     | N-TACS           | 0.9                  | ≥29.7                 | 7                   | 3.5                | -3.2                 | <500    | PAM04-2<br>0.4cc | D89 |
|          | UN00303     | AMPS             | 0.8                  | ≥30.3                 | 7                   | 3.5                | -3.5                 | <620    | PAM04-2<br>0.4cc | D89 |
|          | UN00304     | E-TACS           | 0.9                  | ≥30.3                 | 7                   | 3.5                | -3.5                 | <620    | PAM04-2<br>0.4cc | D89 |
| Digital  | UN0045F     | DDC              | 0.9                  | 31.0                  | —                   | 4.6                | -3.2                 | <670    | PAM04-2<br>0.4cc | D89 |
|          | UN0045H     | PDC              | 1.5                  | 31.2                  | —                   | 4.6                | -3.2                 | <750    | PAM04-2<br>0.4cc | D89 |
|          | UN0036F     | PDC              | 0.9                  | 30.5                  | —                   | 3.5                | -2.5                 | 800     | PAM04-2<br>0.4cc | D89 |
|          | UN0036H     | PDC              | 1.5                  | Under development     |                     |                    |                      |         | PAM04-2<br>0.4cc | D89 |
|          | GN05002     | PHS/CT2          | 1.9                  | 22                    | —                   | 3.5                | -2.8                 | 150     | SO-10A           | D73 |
|          | GN05004N    | DECT             | 1.9                  | 26                    | —                   | 3.5                | -2.8                 | 270     | SO-10A           | D73 |
|          | GN05005N    | WirelessLAN      | 2.4                  | 26                    | —                   | 3.5                | -2.8                 | 270     | SO-10A           | D73 |
|          | GN05008N    | PHS/CT2          | 1.9                  | 21.5                  | —                   | 3.5                | -2.8                 | 150     | SSOF-10D         | D84 |
|          | GN05009N    | PHS base station | 1.9                  | 25.5                  | —                   | 4.8                | -3.0                 | <420    | SO-10D           | D88 |