

TAIYO YUDEN (USA) INC 33E D ■ 8835475 0000466 2 ■ TYI

# 高周波パワーアンプモジュール

T-74-09-01

## HIGH-FREQUENCY POWER AMPLIFIER MODULES

高周波パワーアンプモジュールは、トランシーバ等の各種無線機器の送信出力増幅用に設計、製作されたものです。用途に応じてアマチュア無線機用やマリン無線機用、簡易無線機用など各標準品種があります。これらは、いずれも次の「外形寸法」の項のように8種のパッケージにまとめられていますので、無線機器の標準化に最適です。

High-frequency power amplifier modules have been designed and produced for the amplification of the transmitting output power of transceivers and other kinds of radio equipment. Various standard types are available for specific applications, such as amateur transmitters, marine transmitters, simple transmitters, etc., made up of combinations of the eight modules described below. These are suitable for the standardization of transmitting equipment of all kinds.



### 特性 Characteristics

| 形名<br>Ordering code | 周波数帯域<br>Frequency band (MHz) | 出力電力<br>Output (W) | 電源電圧<br>Power source voltage (V) | 高調波<br>High harmonic (dB) | 総合効率<br>Combined efficiency (%) | 入力電力<br>Input (mW) | パッケージ<br>Package | 用途<br>Applications                                     |
|---------------------|-------------------------------|--------------------|----------------------------------|---------------------------|---------------------------------|--------------------|------------------|--------------------------------------------------------|
| VP-15B9.605         | 148 to 162                    | 2.5                | 9.6                              | -25                       | 45                              | 20                 | TC-15HC          | FM小型送信機、1~2W用<br>FM miniaturized transmitter for 1~2W  |
| VP-15C12            | 145 to 162                    | 6.5                | 12.5                             | -20                       | 45                              | 200                | TC-3HL           | FM送信機、2~5W用<br>FM transmitter for 2~5W                 |
| VP-17C12            | 160 to 174                    | 6.5                | 12.5                             | -20                       | 45                              | 250                | TC-3HL           | FM送信機、2~5W用<br>FM transmitter for 2~5W                 |
| VP-15D1205          | 142 to 162                    | 13.0               | 12.5                             | -20                       | 45                              | 200                | TC-12HC          | FM送信機、10W用<br>FM transmitter for 10W                   |
| VP-15E1305          | 144 to 148                    | 30.0               | 13.5                             | -20                       | 45                              | 250                | TC-12HC          | FM送信機、25W用<br>FM transmitter for 25W                   |
| VP-15E1306          | 156 to 158                    | 30.0               | 13.5                             | -20                       | 45                              | 250                | TC-12HC          | FM送信機、マリンバンド25W用<br>FM transmitter marine band for 25W |
| UP-45B1202          | 450 to 470                    | 3.5                | 12.0                             | -25                       | 40                              | 100                | TC-8HC-02        | FM小型送信機、2~3W用<br>FM miniaturized transmitter for 2~3W  |
| UP-36C12            | 355 to 375                    | 6.5                | 12.5                             | -30                       | 40                              | 200                | TC-3HL           | FM送信機、2~5W用<br>FM transmitter for 2~5W                 |
| UP-42C12            | 400 to 420                    | 6.5                | 12.5                             | -30                       | 40                              | 200                | TC-3HL           | FM送信機、2~5W用<br>FM transmitter for 2~5W                 |
| UP-45C12            | 450 to 470                    | 6.5                | 12.5                             | -30                       | 40                              | 250                | TC-3HL           | FM送信機、2~5W用<br>FM transmitter for 2~5W                 |
| UP-36D12            | 355 to 375                    | 13.0               | 12.5                             | -30                       | 40                              | 200                | TC-1HL           | FM送信機、10W用<br>FM transmitter for 10W                   |
| UP-45D12            | 450 to 470                    | 13.0               | 12.5                             | -30                       | 40                              | 250                | TC-1HL           | FM送信機、10W用<br>FM transmitter for 10W                   |
| UP-903C12.6         | 890 to 915                    | 7.0                | 12.5                             | -30                       | 30                              | 100                | TC-26H           | 自動車電話(UK用)<br>Automobile telephone (for UK)            |
| UP-835A7.2D         | 824 to 849                    | 2.0                | 7.2                              | -30                       | 37                              | 1                  | TC-31            | 携帯電話(US用)<br>Portable telephone (for US)               |
| UP-835C12.6A        | 824 to 849                    | 7.0                | 12.5                             | -30                       | 35                              | 1.6                | TC-37            | 自動車電話(US用)<br>Automobile telephone (for US)            |
| UP-903A7.2          | 890 to 915                    | 2.0                | 7.2                              | -30                       | 37                              | 1                  | TC-31            | 携帯電話(UK用)<br>Portable telephone (for UK)               |

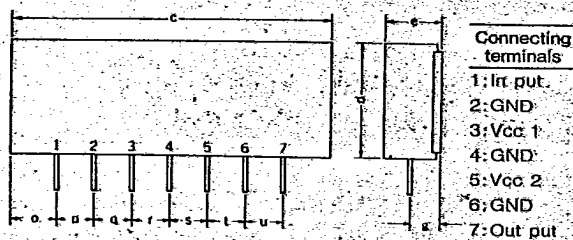
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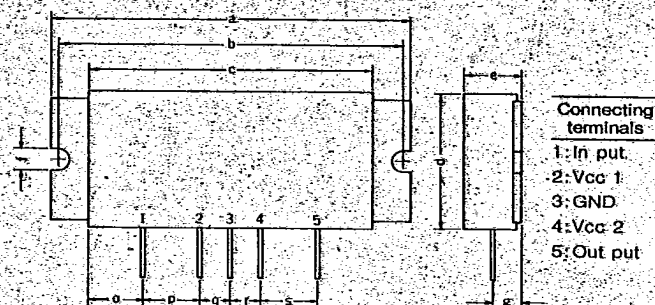
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■外形寸法 (表示はパッケージ分類記号) EXTERNAL DIMENSIONS package classification symbol

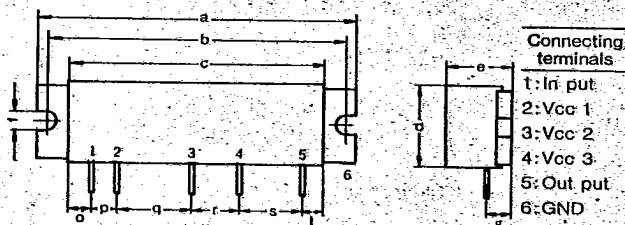
TC-8HC-02



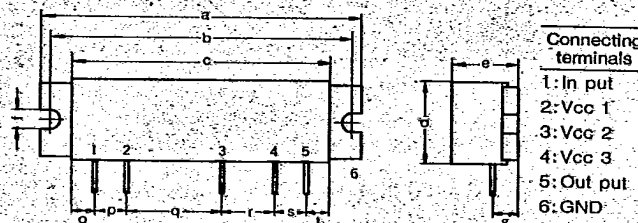
TC-12HC



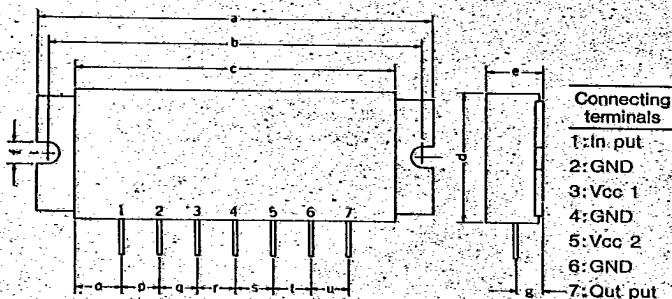
TC-26H



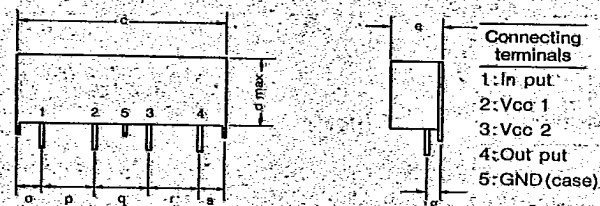
TC-31, TC-37



TC-1HL, TC-3HL



TC-15HC



| パッケージ<br>分類 | 寸 法 Dimensions (mm) |      |      |      |      |     |     |      |      |      |      |      |      |   |  |
|-------------|---------------------|------|------|------|------|-----|-----|------|------|------|------|------|------|---|--|
|             | a                   | b    | c    | d    | e    | f   | g   | h    | p    | q    | r    | s    | t    | u |  |
| TC-1HL      | 85                  | 78   | 68   | 28.4 | 13.5 | 4.2 | 7   | 15.3 | 5    | 7.5  | 10   | 5    | 5    | 5 |  |
| TC-3HL      | 65                  | 58   | 48   | 28.4 | 13.0 | 4.2 | 6   | 9    | 5    | 5    | 5    | 5    | 5    | 5 |  |
| TC-12HC     | 65                  | 58   | 48   | 24.5 | 10.5 | 4.2 | 3.5 | 9    | 10   | 5    | 5    | 10   | —    | — |  |
| TC-8HC-02   | —                   | —    | 48   | 20   | 13.0 | —   | 6   | 9    | 5    | 5    | 5    | 5    | 5    | 5 |  |
| TC-26H      | 66                  | 60   | 52   | 23.5 | 11.0 | 4.0 | 3   | 5.1  | 5.1  | 15.2 | 10.2 | 12.7 | 3.7  | — |  |
| TC-31       | 50                  | 47   | 40.3 | 13.3 | 10.0 | 3.0 | 4   | 3.15 | 5.1  | 15.2 | 7.7  | 5.0  | 3.15 | — |  |
| TC-37       | 60.5                | 57.5 | 50.2 | 14.0 | 6.6  | 3.2 | 2.3 | 5.0  | 13.0 | 9.5  | 12.5 | 8.0  | 9.2  | — |  |
| TC-15HC     | —                   | —    | 40.0 | 13.5 | 9.0  | —   | 2.0 | 5.0  | 10.0 | 10.0 | 10.0 | 5.0  | —    | — |  |