

# NXP RF POWER SOLUTIONS FOR MEDICAL APPLICATIONS

| ISM Band | Medical Application                           | Reference Circuit   |                      |          |           |
|----------|---|---------------------|----------------------|----------|-----------|
|          |   | Transistor          | P <sub>out</sub> (W) | Eff. (%) | Gain (dB) |
| 13 MHz   | RF Ablation<br>Skin Rejuvenation<br>Diathermy | MRFE6VP61K25H       | 1350                 | 75       | 23.5      |
|          |   | MRFE6VP6300H        | 300                  | 80       | 36        |
| 27 MHz   | Skin Rejuvenation<br>Diathermy                | MRFE6VP61K25H       | 1200                 | 81       | 27        |
| 40 MHz   | Skin Rejuvenation<br>Diathermy                | MRFE6VP61K25H       | 1300                 | 85       | 26        |
|          |   | MRFE6VP6300H        | 350                  | 85       | 23        |
|          |   | MRFE6VP5150N        | 180                  | 82       | 25        |
| 915 MHz  | Microwave Ablation<br>Diathermy               | MRF8VP13350N        | 350                  | 55       | 21        |
| 2.45 GHz | Microwave Ablation<br>Renal Denervation       | MRF24300N           | 300                  | 60       | 15        |
|          |   | MRF7S24250N         | 250                  | 55       | 15        |
|          |   | MRF7S24250N 3-stage | 250                  | 51       | 44        |

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