

| | IRFP240 | IRFP048 | IRFP044N | IRFP140 | IRFP150 | IRFP250MPBF | IPx600N25N3 G | IRF520 | IRFP610 | IRFP460A | IRFP450 | IRFP3710 | IXTK 88N30P | FQH44N10 | C2M0280120D | C3M0120065D | C3M0160120D | C3M0120090D | C3M0065090D | C3M0350120D | G3R75MT12D | G3R160MT17D | G3R160MT12D | G3R350MT12D | SCT2280KEC | SJEP120R100 | | | |
|----------------------------------|-------------|----------|-------------|-------------|----------|-------------|---------------|-------------------|------------|----------|----------|----------|-------------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------|--------------|
| Voltage Vds | 200 | 60 | 55 | 100 | 100 | 200 | 250 | 100 | 200 | 500 | 500 | 100 | 300 | 100 | 1200 | 650 | 1200 | 900 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 | 120 | 1200 | | | |
| Current Id TC100°C | 12 | 52 | 37 | 23 | 29 | 21 | 18 | 6,5 | 2,1 | 13 | 8,7 | 40 | x | 34 | 6 | 16 | 12 | 15 | 23 | 5,5 | 26 | 12 | 13 | 7 | 10 | 17 | | | |
| Rds on @10V Vgs | 0,18 | 0,018 | 0,02 | 0,052 | 0,055 | 0,075 | 0,06 | 0,27 | 1,5 | 0,27 | 0,4 | 0,025 | 0,04 | 0,039 | 0,28 | 0,12 | 0,16 | 0,12 | 0,065 | 0,5 | 0,075 | 0,16 | 0,16 | 0,35 | 0,28 | 0,1 | | | |
| housing | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-220AB | TO-220AB | TO-220AB | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | TO-247AC | | | |
| forward transconductancs gfs (S) | 6,9 | 20 | 16 | 11 | 13 | 17 | 47 | 2,7 | 0,8 | 11 | 9,3 | 20 | 60 | 31 | 2,8 | 5 | 5,2 | 8,9 | 16 | 2,9 | 9 | 4,6 | 4,4 | 2,1 | 1,4 | x | | | |
| input capacitance pF (Ciss) | 1300 | 2400 | 1500 | 1400 | 2800 | 2159 | 1770 | 360 | 140 | 3100 | 2600 | 3000 | 6300 | 1400 | 259 | 640 | 632 | 414 | 760 | 345 | 1545 | 854 | 724 | 331 | 667 | 670 | | | |
| output capac. pF (Coss) | 400 | 1300 | 500 | 330 | 1100 | 315 | 112 | 150 | 53 | 480 | 720 | 640 | 950 | 425 | 23 | 45 | 39 | 48 | 66 | 20 | 46 | 23 | 22 | 10 | 27 | 103 | | | |
| reverse transfer cap pF (Crss) | 130 | 190 | 160 | 170 | 280 | 83 | 3 | 34 | 15 | 18 | 340 | 330 | 190 | 85 | 3 | 2,3 | 3 | 3 | 5 | 3,4 | 3,8 | 4,1 | 1,8 | 0,8 | 5 | 67 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| price | 1,42 | 3,56 | 1,1 | 1,17 | 1,48 | 1,49 | 2,43 | 0,47 | 0,35 | 2,22 | 1,87 | 1,44 | 8,24 | 2,31 | 4,19 | | 4,32 | | 7,72 | | | | | | | 119 !!! | 02.04.2021 | | |
| Where | reichelt | digikey | reichelt | reichelt | reichelt | digikey | | reichelt | reichelt | reichelt | reichelt | reichelt | digikey | farnell | digikey | digikey | digikey | 6,91 | 8,32 | 9,63 | 12,86 | 5,44 | 8,63 | 9,33 | 5,48 | 3,97 | 8,99 | 31.05.2021 | out of stock |
| | vishay | vishay | IR | IR | IR | infineon | infineon | vishay | vishay | vishay | vishay | IR | IXYS | on semi | Cree | Cree | Cree | Cree | Cree | Cree | Cree | GeneSiC | GeneSiC | GeneSiC | GeneSiC | ROHM | Semisouth | | |
| | | | | | | | optiMOS3FET | | | | | | | | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | silicon Carbide | | | |
| | used in ACA | | boughth 17. | boughth 17. | 5.2021 | | | | ACP+preamp | | | | | Lufo amp | | | | | | | | | | | | | | | |
| | | | | | | | | boughth 17.5.2021 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

<https://www.diyaudio.com/forums/pass-labs/328357-aca-amp-premium.html>

<https://www.diyaudio.com/forums/pass-labs/372679-lufo-amp-39w-se-class-28v-rail.html>

Rds(on) has little effect. **Input capacitance and the Gate stoppers** have a much bigger influence on THD above 5KHz or so. **More capacitance equals more THD.**
<https://www.diyaudio.com/forums/pass-labs/328357-aca-amp-premium-58.html#post6551818>

Transconductance is an expression of the performance of a bipolar transistor or field-effect transistor (FET). In general, the larger the **transconductance** figure for a device, the greater the gain(amplification) it is capable of delivering, when all other factors are held constant.