

- PIN :
- ① Pin : RF INPUT
 - ② Vcc1 : 1st. DC SUPPLY
 - ③ Vcc2 : 2nd. DC SUPPLY
 - ④ Vcc3 : 3rd. DC SUPPLY
 - ⑤ Po : RF OUTPUT
 - ⑥ GND : FIN

ABSOLUTE MAXIMUM RATINGS (T_c = 25°C unless otherwise noted)

| Symbol | Parameter | Conditions | Ratings | Unit |
|----------------------|----------------------------|--|-------------|------|
| V _{cc1} | Supply voltage | | 16 | V |
| V _{cc2,3} | | | 17 | V |
| I _{cc} | Total current | | 12 | A |
| P _{in(max)} | Input power | Z _G = Z _L = 50 Ω | 0.5 | W |
| P _{O(max)} | Output power | Z _G = Z _L = 50 Ω | 50 | W |
| T _{c(OP)} | Operation case temperature | | - 30 to 110 | °C |
| T _{stg} | Storage temperature | | - 40 to 110 | °C |

Note. Above parameters are guaranteed independently.

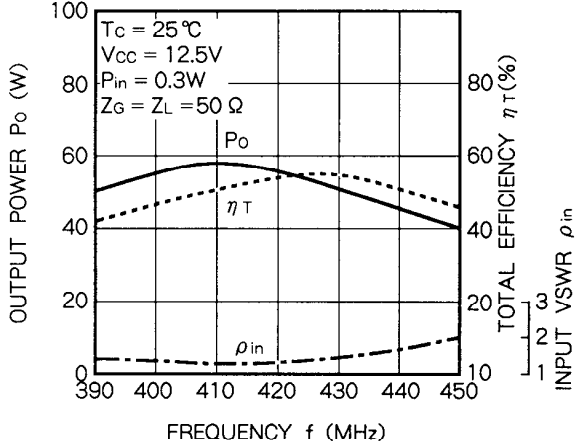
ELECTRICAL CHARACTERISTICS (T_c = 25°C unless otherwise noted)

| Symbol | Parameter | Test conditions | Limits | | Unit |
|-----------------|---------------------|---|---------------------------|------|------|
| | | | Min | Max | |
| f | Frequency range | P _{in} = 0.3W V _{cc} = 12.5V Z _G = Z _L = 50 Ω | 400 | 430 | MHz |
| P _o | Output power | | 40 | | W |
| η _T | Total efficiency | | 40 | | % |
| 2f _o | 2nd. harmonic | | | - 30 | dBc |
| 3f _o | 3rd. harmonic | | | - 30 | dBc |
| ρ _{in} | Input VSWR | | | 3.5 | - |
| - | Load VSWR tolerance | V _{cc} = 15.2V, P _o = 40W (P _{in} : controlled) Load VSWR = 8.8 : 1 (All phase) Z _G = 50 Ω | No degradation or destroy | | - |

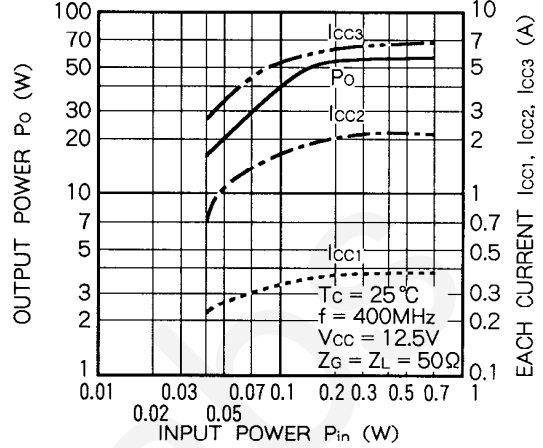
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

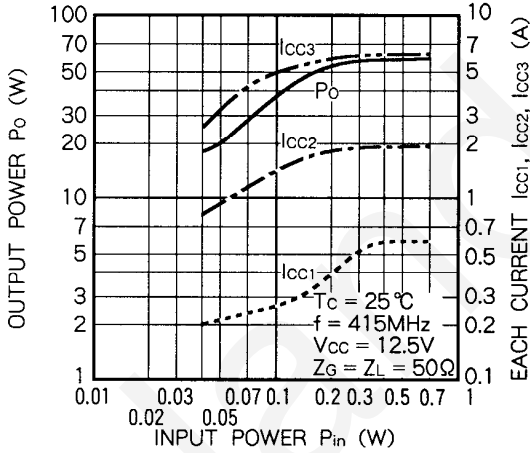
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY CHARACTERISTICS



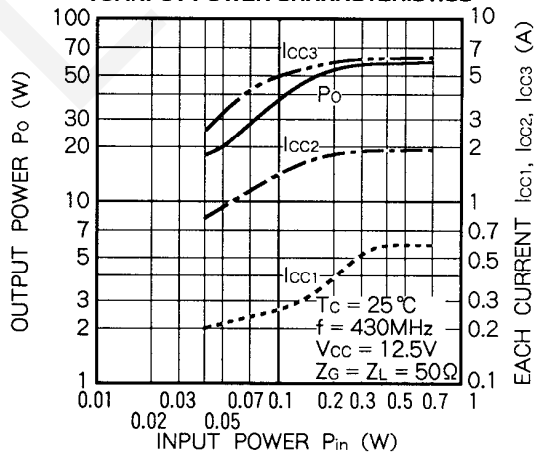
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



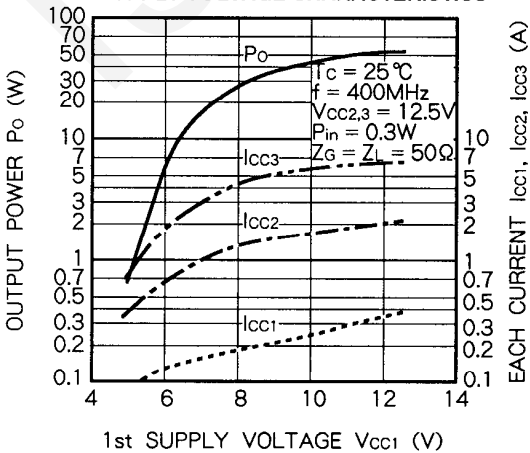
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



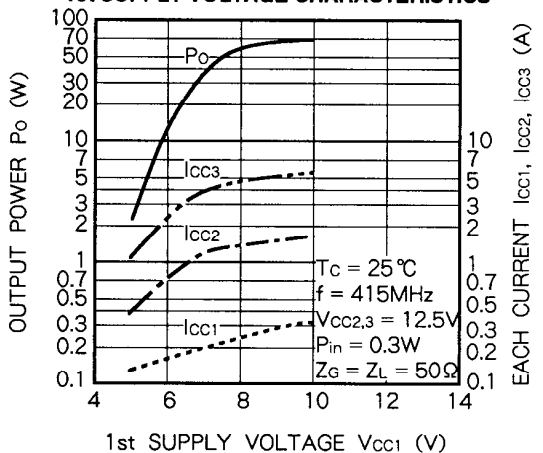
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



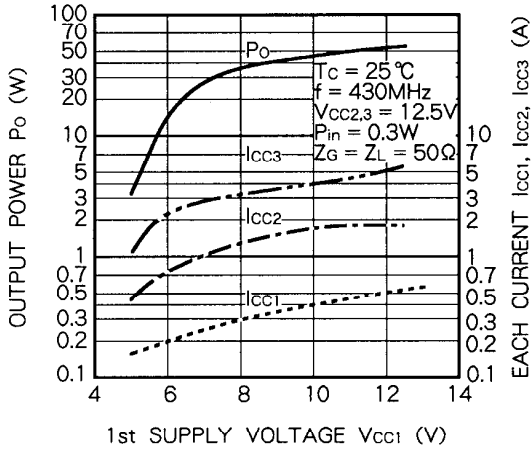
OUTPUT POWER, EACH CURRENT VS. 1st SUPPLY VOLTAGE CHARACTERISTICS



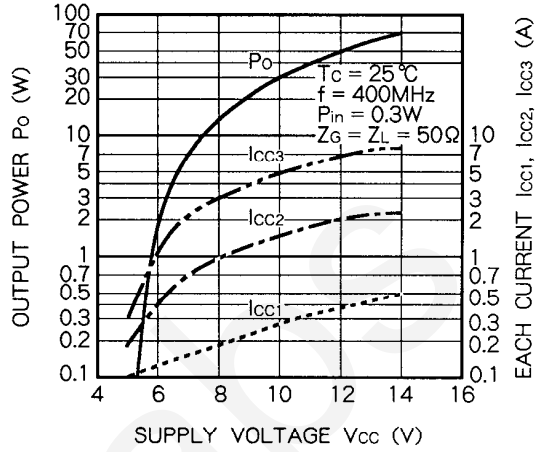
OUTPUT POWER, EACH CURRENT VS. 1st SUPPLY VOLTAGE CHARACTERISTICS



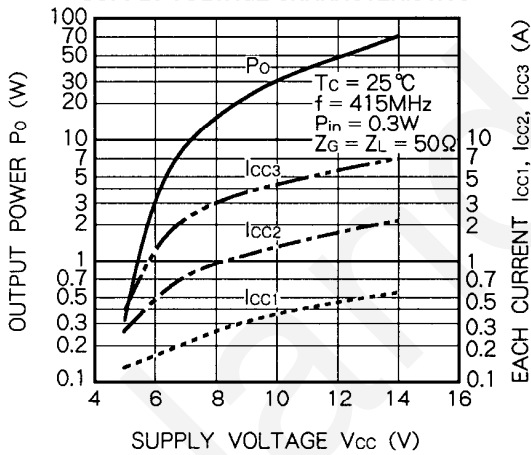
OUTPUT POWER, EACH CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS

