



| Pin | Description |
|---------|-----------------|
| 1 | input |
| 5 | +V _B |
| 9 | output |
| 2.3.7.8 | common |

FEATURES >>

- Excellent linearity
- Extremely low noise
- Excellent return loss properties
- High reliability

DESCRIPTION

Hybrid amplifier module operating over a frequency range of 5 to 200 MHz at a voltage supply of +24V(DC)

QUICK REFERENCE DATA

| SYMBOL | PARAMETER | CONDITIONS | MIN. | TYP. | MAX. | UNITS |
|------------------|-------------------------------|---------------------|------|------|------|-------|
| G _p | power gain | f=10 MHz | 35 | - | 36 | dB |
| I _{tot} | total current consumption(DC) | V _B =24V | 140 | - | 160 | mA |

LIMITING VALUES

In accordance with the Absolute Maximum Rating System

| SYMBOL | PARAMETER | MIN. | MAX. | UNITS |
|------------------|-------------------------------------|------|------|-------|
| V _i | RF input voltage | - | 55 | dBmV |
| T _{stg} | storage temperature | -40 | +100 | °C |
| T _{mb} | operating mounting base temperature | -20 | +90 | °C |

CHARACTERISTICS

 (Bandwidth 5 to 200MHz; $T_{mb}=25^{\circ}\text{C}$, $V_B=24\text{V}$, $Z_S=Z_L=75\Omega$)

| PART NUMBER | | | Egi2003524R | | | |
|-------------|-----------------------------------|------|-------------|------|-----------|-----------------------------------|
| SYMBOL | PARAMETER | UNIT | MIN. | TYP. | MAX. | CONDITIONS |
| G_P | power gain | dB | 35 | - | 36 | f=10MHz |
| SL | slope cable equivalent | dB | -0.5 | - | 0.5 | f=5 to 200 MHz |
| FL | flatness of frequency response | dB | - | - | ± 0.5 | f=5 to 200 MHz |
| S_{11} | input return loss | dB | - | - | -18 | f=5 to 200 MHz |
| S_{22} | output return loss | dB | - | - | -18 | f=5 to 200 MHz |
| CTB | composite triple beat | dB | - | - | -70 | 17 channels ; $V_o=50\text{dBmV}$ |
| CSO | composite second order distortion | dB | - | - | -63 | CTB measured at 77.25 MHz |
| X_{mod} | cross modulation | dB | - | - | -62 | CSO measured at 78.5 MHz; |
| V_o | output voltage | dBmV | 65 | - | - | $d_{im}=-60\text{dB}$ |
| F | noise figure | dB | - | - | 4 | f=200 MHz |
| I_{tot} | total current consumption(DC) | mA | 140 | - | 160 | $V_B=+24\text{V}$ |

 The module normally operates at $V_B=24\text{V}(\pm 0.5)$
MODULE DIMENSIONS
