

S-BAND RADAR TRANSISTORS

The industry leader in S-Band Power, SGS-THOMSON offers a complete line of short, medium and long pulse transistors for civil and military radar applications up to 3.5 GHz. Refractory gold metallization and emitter site-ballasting ensure superior long-term reliability.

2700-3500 MHz CLASS C, COMMON BASE, PULSED, S-BAND RADAR

| PART NUMBER | FREQ. (MHz) | P _{OUT} MIN. (W) | P _{IN} (W) | GAIN MIN. (dB) | η_C MIN. (%) | V _{CC} (V) | R _{TH(j-c)} MAX. (°C/W) | PULSE WIDTH (μSEC) | DUTY CYCLE (%) | PACKAGE STYLE |
|--|-------------|---------------------------|---------------------|----------------|-------------------|---------------------|----------------------------------|--------------------|----------------|---------------|
| AM2729-110 | 2700-2900 | 105 | 23.5 | 6.5 | 33 | 40 | 0.4 | 50 | 10 | S138 |
| AM2729-125 | 2700-2900 | 125 | 25 | 7.0 | 35 | 40 | 0.35 | 50 | 10 | S038 |
| AM82731-003 | 2700-3100 | 3.0 | 0.80 | 5.7 | 27 | 30 | 6.5 | 100 | 10 | S042 |
| AM82731-006 | 2700-3100 | 5.5 | 1.5 | 5.6 | 27 | 30 | 3.75 | 100 | 10 | S042 |
| AM82731-012 | 2700-3100 | 12 | 3.0 | 6.0 | 30 | 40 | 4.0 | 100 | 10 | S036 |
| AM82731-025 | 2700-3100 | 25 | 6.0 | 6.2 | 30 | 40 | 2.0 | 100 | 10 | S036 |
| AM82731-050 | 2700-3100 | 50 | 12.5 | 6.0 | 30 | 40 | 0.75 | 100 | 10 | S036 |
| AM2931-110 | 2900-3100 | 105 | 25 | 6.2 | 32 | 42 | 0.40 | 50 | 10 | S138 |
| AM2931-125[†] | 2900-3100 | 125 | 25 | 7.0 | 35 | 42 | 0.35 | 50 | 10 | S038 |
| AM83135-001 | 3100-3500 | 1.0 | 0.30 | 5.2 | 27 | 30 | 13.0 | 100 | 10 | S042 |
| AM83135-003 | 3100-3500 | 3.0 | 0.80 | 5.7 | 27 | 30 | 6.5 | 100 | 10 | S042 |
| AM83135-005 | 3100-3500 | 5.0 | 1.5 | 5.2 | 27 | 30 | 3.75 | 100 | 10 | S042 |
| AM83135-010 | 3100-3500 | 10 | 3.2 | 5.0 | 30 | 40 | 4.0 | 100 | 10 | S064 |
| AM83135-015 | 3100-3500 | 15 | 4.5 | 5.2 | 30 | 40 | 2.8 | 100 | 10 | S064 |
| AM83135-030 | 3100-3500 | 30 | 8.5 | 5.5 | 30 | 40 | 1.5 | 100 | 10 | S064 |
| AM83135-040 | 3100-3500 | 40 | 12.5 | 5.1 | 30 | 40 | 1.2 | 100 | 10 | S064 |
| AM83135-050 | 3100-3500 | 50 | 15 | 5.2 | 30 | 42 | 0.40 | 10 | 10 | S064 |

[†] In Development