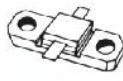


SELECTION GUIDE



.230 2LFL
(M151)



.250 SQ 2LFL
(M161)



.400 SQ 2LFL HERM
(M138)



.500 COAX
(M144)

2 ... 4 GHz MICROWAVE TRANSISTORS FOR CLASS A OPERATION

| Type | | Package | Config. | BIAS V ₁ /I ₁ (V) (mA) | P _{out} (W) | f _o (GHz) | P _{in} (mW) | G _p min (dB) | R _{th(j-c)} (°C/W) |
|-------------|-----------|------------|---------|--|-------------------------|-------------------------|-------------------------|-------------------------------|--------------------------------|
| P/N | SD # | | | | | | | | |
| TCC 2100 | SD 1851-4 | .230 2LFL | CE | 20/70 | 0.316 | 1 | 28 | 10.5 | 35 |
| TCC 20 L08 | SD 1851 | .230 2LFL | CE | 20/120 | 0.8 | 2 | 125 | 8 | 30 |
| TCC 20 L 15 | SD 1853 | .230 2LFL | CE | 20/220 | 1.5 | 2 | 300 | 7 | 17 |
| TCC 20 L 25 | SD 1855 | .230 2LFL | CE | 20/440 | 2.5 | 2 | 625 | 6 | 8.5 |
| SD 1850 | | .230 2LFL* | CE | 15/80 | 0.2 | 2.3 | 16 | 11 | 45 |

SD # is the code used in our ordering and invoicing system.

0.7 ... 2.5 GHz MICROWAVE TRANSISTORS FOR OSCILLATORS

| Type | Package | Config. | V _{CC} (V) | P _{out} (W) | Frequency range (GHz) | η _c (%) | I _C (mA) | R _{th(j-c)} (°C/W) |
|---------|-----------|---------|------------------------|-------------------------|-----------------------------|-----------------------|------------------------|--------------------------------|
| SD 1845 | .230 2LFL | CC | 20 | 0.5 | 2.3 | 25 | 90 | 45 |
| SD 1847 | .230 2LFL | CC | 24 | 1.5 | 2.3 | 30 | 250 | 17 |
| SD 1837 | .230 2LFL | CC | 20 | 2 | 2.3 | 25 | 400 | — |
| SD 1838 | .230 2LFL | CC | 20 | 3 | 2.3 | 30 | 500 | — |
| SD 1840 | .500 COAX | CE | 20 | 1 | 2 | 28 | — | 25 |
| SD 1842 | .500 COAX | CE | 21 | 1.2 | 2.3 | — | — | — |

1.60 ... 1.70 GHz POWER TRANSISTORS FOR MARISAT

| Type | Package | Config. | V _{CC} (V) | P _{out} (W) | Frequen. range (GHz) | P _{in} (W) | G _p min (dB) | η _c min (%) | Θ _{j-c} (°C/W) |
|----------|---------------|---------|------------------------|-------------------------|----------------------------|------------------------|-------------------------------|------------------------------|----------------------------|
| SD 1891* | .230 2LFLH | CB | 28 | 3 | 1.60-1.70** | .25 | 10.8 | 40 | 20 |
| SD 1893* | .230 2LFLH | CB | 28 | 10 | 1.60-1.70** | .80 | 11.0 | 40 | 5.5 |
| SD 1895 | .250 SQ 2LNH | CB | 28 | 15 | 1.60-1.70** | 1.8 | 9.2 | 45 | 4.7 |
| SD 1888 | .250 SQ 2LNH | CB | 28 | 20 | 1.60-1.70** | 2.5 | 9.0 | 45 | 4.0 |
| SD 1868* | .400 SQ 2LFLH | CB | 28 | 30 | 1.60-1.70** | 4.0 | 8.7 | 40 | 3.0 |

* Non hermetic versions of above standard products are under development ** Test frequency – 1.65 GHz

