MGRT2 DC Footprint
Edge coupled Stripline

Daugther Card Footprint Grid : 1.8mmx1.35mm

Trace width: 5mils

Pad size: top=.712mm (D+6 mils)

Pad size: signal layer=.8128mm (D+10 mils)

2 signal layers: Pair AB and BC on same layer
Stub length 30mils; Pair DE and EF on same
layer stub length 19mils; SE pair Stub length 40
mils.

Trace length = 2mm from center of via to end
of trace (equal length for all DE pairs), SE trace
length 2.17mm
MGRT2 DC Footprint - Side view

Edge coupled Stripline

Trace thickness: .7 mils (1/2 oz. Cu); Ground layers: 1oz Cu
Trace width: 5 mils
Megtron 6: \( \varepsilon = 3.5 \); \( \tan \delta = .009 \)
Height: 10.3 mils (between ground layers)
Via length: 115 mils
Via Stub: Pair AB and BC on same layer Stub length 30 mils; Pair DE and EF on same layer stub length 19 mils; SE pair Stub length 40 mils.

Board thickness 155 mils
Via length 115 mils
Via Stub (30 mils)
MGRT2 DC Footprint
Edge coupled Stripline

MGRT2-R DC Footprint Differential IL

Magnitude dB

freq, GHz
MGRT2 DC Footprint
Edge coupled Stripline

MGRT2-R DC Footprint Differential RL

- Pair BC 30mil stub
- Pair AB 30mils stub
- Pair DE&EF 19mil stub

Magnitude dB

freq, GHz
MGRT2 DC Footprint Edge coupled Stripline
MGRT2 DC Footprint- Edge coupled Stripline Fitted Attenuation

Courtesy of Mercury Computer
MGRT2 DC Footprint- Edge coupled Stripline ICR

Courtesy of Mercury Computer
MGRT2 DC Footprint - Edge coupled Stripline Insertion loss
MGRT2 DC Footprint - Edge coupled Stripline Insertion loss Deviation

Courtesy of Mercury Computer
MGRT2 DC Footprint - Edge coupled Stripline Return loss

Courtesy of Mercury Computer