

Product Features

- RF frequency: DC to 180 GHz
- Linear Gain: 12 dB
- Noise Figure: 8.5 dB
- Die Size: X=1040 um, Y=800 um, Z=75 um
- DC Power: 8/2 VDC, 60 mA

Application

- Point-to-Point Radios and VSATs
- Test instrumentation
- Fiber Optics
- Military, EW and Space

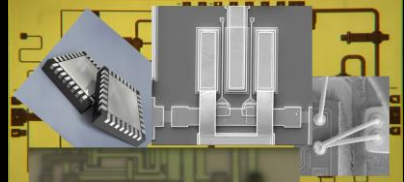
Product Description

The TMC775D Distributed amplifier is a broadband high gain device with positive gain slope, designed for use in Radios, Test instrumentation, Military, EW and Space applications. The TMC775D is a 50 Ω matched design providing 8dB of noise figure, offers excellent return loss at low-end for optical instrumentation, interface to photodiodes, and eliminates the need for RF port matching. Both bond pad and backside metallization are Au-based that is compatible with ribbon and wedge bonding and high conductivity epoxy and eutectic die attach methods.

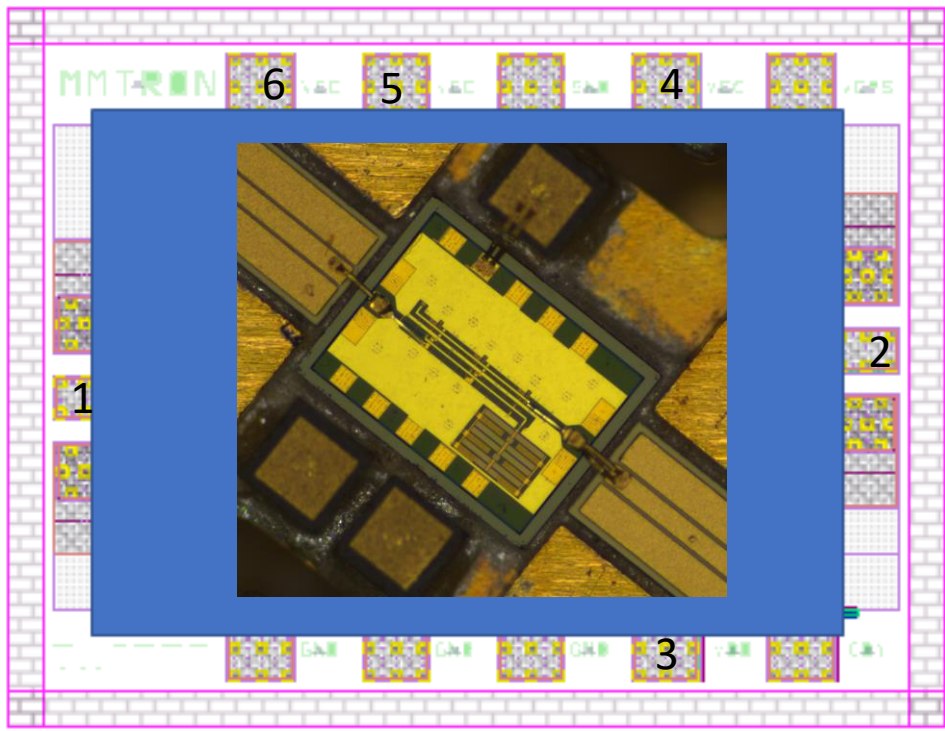
Electrical Performance : Vcc = 8 V, VBB=2V, TA = 25 °C, F = 120 GHz

	min	Typ	Max	Units
Frequency	DC		180	GHz
Gain		10		dB
P1dB		13		
Noise Figure		8.5		dB
Bias Voltage (VCC)		8		V
Bias Voltage (VBB)		2		V
Bias Current		60		mA

TMC775D
DC-180 GHz
Distributed Amplifier

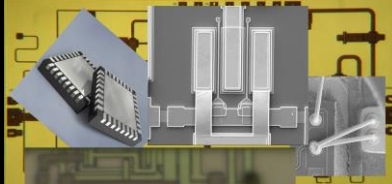


mmTRON
 Unleashing the
 mmWave Frontier



Pad #	Function
1	RF INPUT
2	RF OUTPUT
3	VBB
4,5,6	VCC

Note: TMC775D, TMC774 and TMC775D parts have identical footprints and pad configurations.



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