



Product Features

• RF frequency: DC to 160 GHz

Linear Gain: 11 dBNoise Figure: 8.5 dB

• Die Size: X=1040 um, Y=800 um, Z=75 um

DC Power: 8/2 VDC, 60 mA

Application

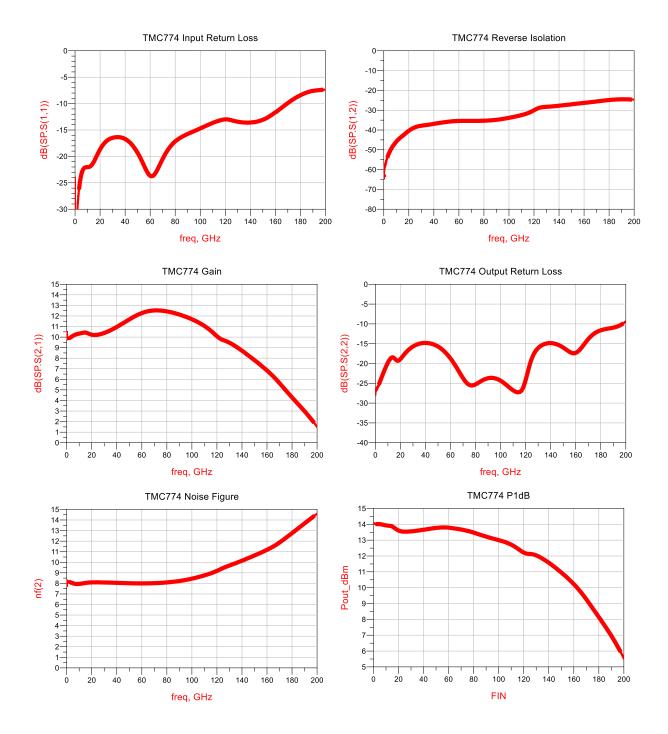
- Point-to-Point Radios and VSATs
- Test instrumentation
- Fiber Optics
- Military, EW and Space

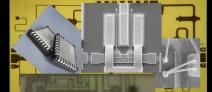
Product Description

The TMC774D 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 TMC774D 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 Aubased that is compatible with ribbon and wedge bonding and high conductivity epoxy and eutectic die attach methods.

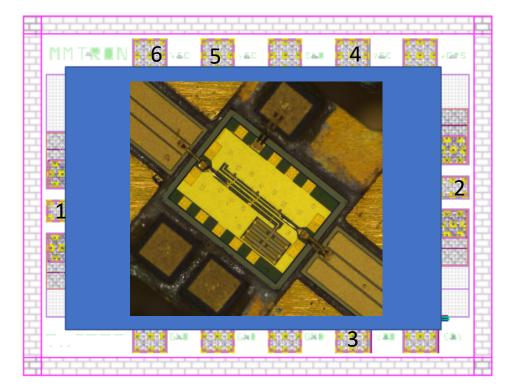
Electrical Performance : Vcc = 8 V, VBB=2V, TA = 25 °C, F = 110 GHz				
	min	Тур	Max	Units
Frequency	DC		160	GHz
Gain		11		dB
P1dB		13		
Noise Figure		8.5		dB
Bias Voltage (VCC)		8		V
Bias Voltage (VBB)		2		V
Bias Current		60		mA





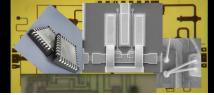






Pad #	Function
1	RF INPUT
2	RF OUTPUT
3	VBB
4,5,6	VCC

Note: TMC773, TMC774D and TMC775 parts have identical footprints and pad configurations.





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