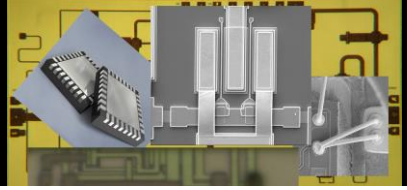
TMC773D
DC-120 GHz
Distributed Amplifier



mmTRON
Unleashing the mmWave Frontier

Product Features

- RF frequency: DC to 120 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

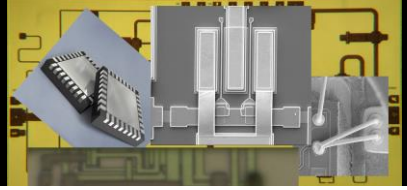
Application

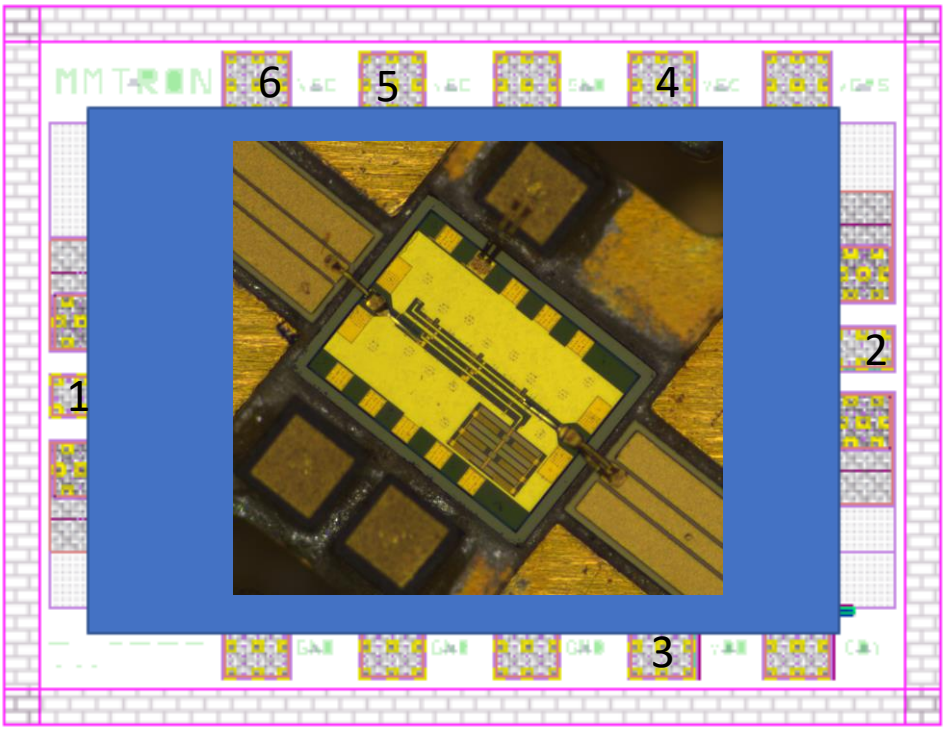
- Point-to-Point Radios and VSATs
- Test instrumentation
- Fiber Optics
- Military, EW and Space

Product Description

The TMC773D 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 TMC773D 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 = 90 GHz**				
	min	**Typ**	**Max**	**Units**
Frequency	DC		120	GHz
Gain		12		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: TMC773D, TMC774 and TMC775 parts have identical footprints and pad configurations.