

Features

- Gain: 35dB Typical
- P1dB Output Power: 29dBm Typical
- Supply Voltage: +24V @ 700mA
- 50 Ohm Matched Input / Output

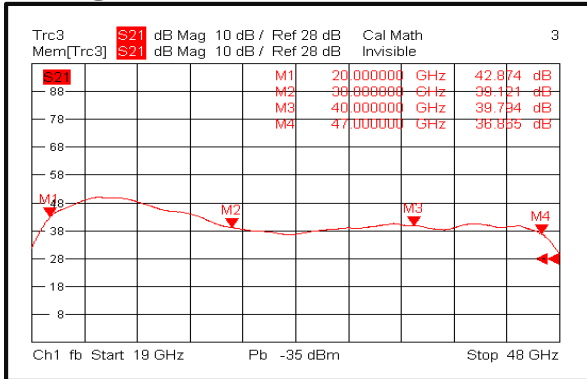
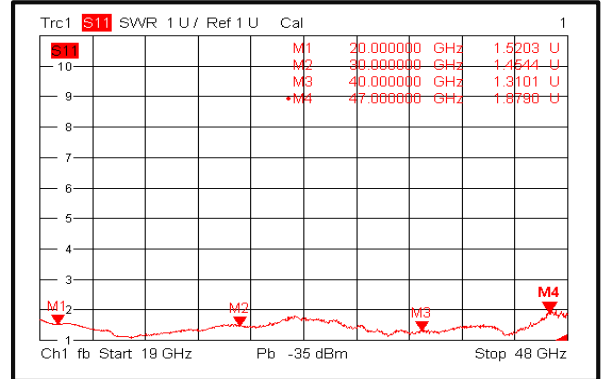
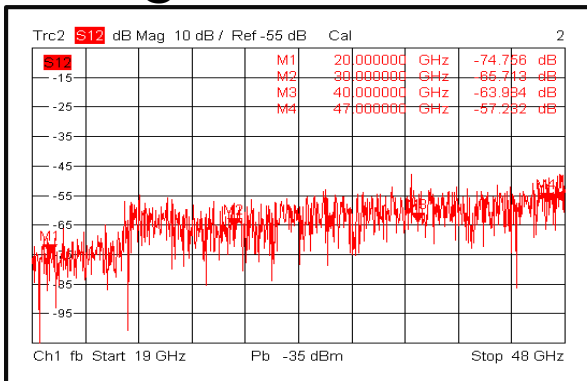
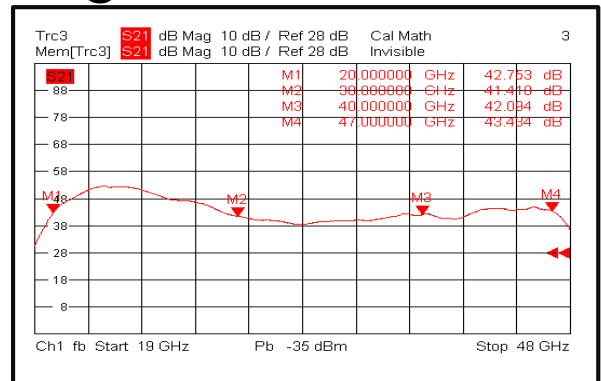
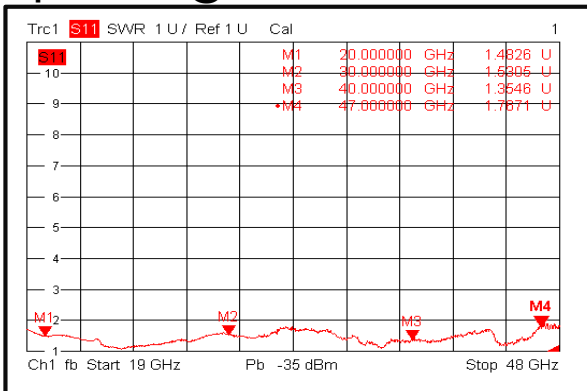
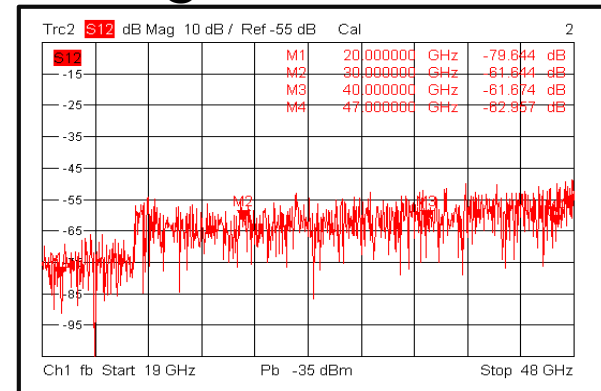

Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

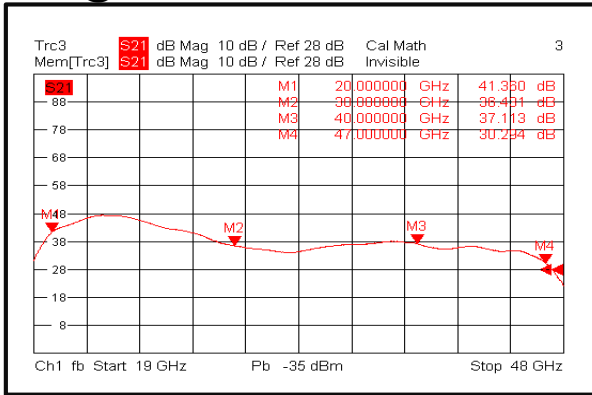
RF Microwave & VSAT
Fiber Optics

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	20		30	30		40	40		47	GHz
Gain	30	43	52	30	35	45	28	33	45	dB
Gain Flatness		±8.0			±2.5			±2.0		dB
Gain Variation Over Temperature (-40°C~+85°C)		±3.0			±3.0			±3.0		dB
Input VSWR		1.6			1.8			1.8		:1
Output 1dB Compression Point (P1dB)	25	29		27	28		24	25		dBm
Saturated Output Power (Psat)	26.5	29		27	29		24	26		dBm
Supply Current (I _{dd}) @+24V		700	1200		700	1200		700	1200	mA
Fan Supply Current (I _{dd}) @+24V		400			400			400		mA
Power Added Efficiency		5			5			5		%
Isolation S12		-60			-55			-55		dB

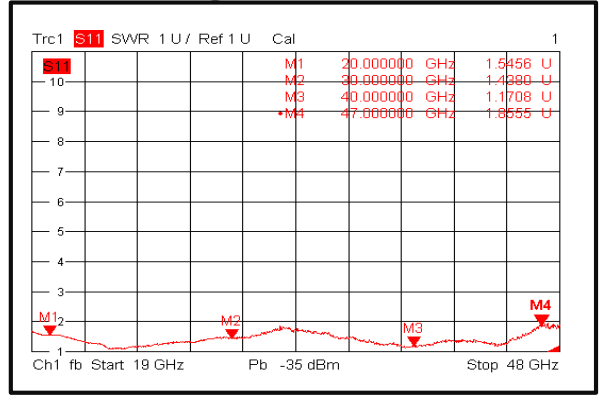
Weight	Net	10.85 Max. ounces	Impedance	50ohms
	Including Heat Sink	58 Max. ounces		
Input / Output Connectors	2.4mm-Female (2.92mm female optional)		Material	Copper
Finish	Nickel Plated	Package Sealing	Epoxy Sealed (Standard)	
			Hermetically Sealed (Option with extra charge)	

Gain@+25°C

Input VSWR@+25°C

Isolation@+25°C

Gain@-40°C

Input VSWR@-40°C

Isolation @-40°C


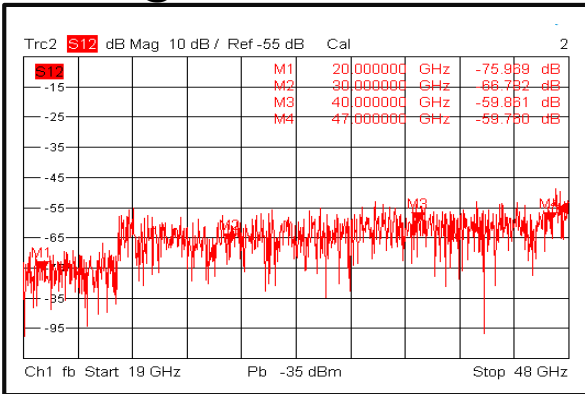
Gain@+85°C



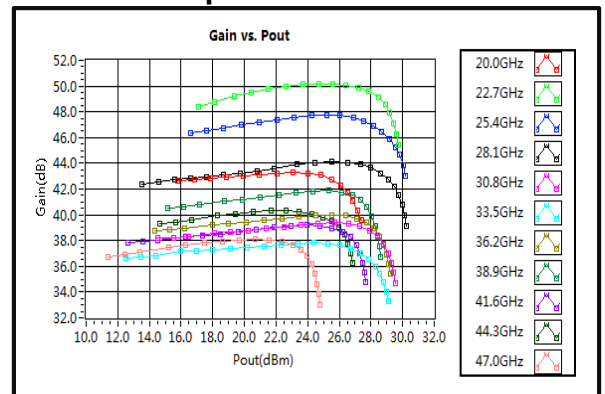
Input VSWR@+85°C



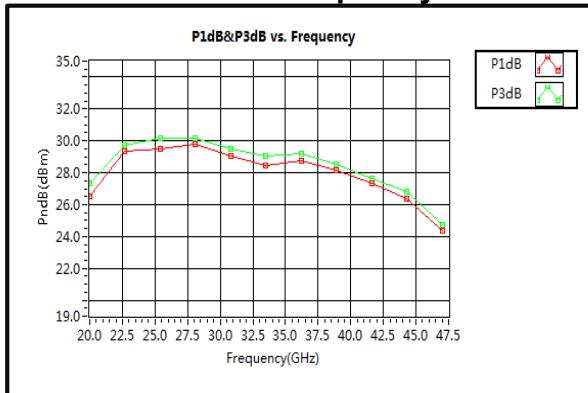
Isolation@+85°C



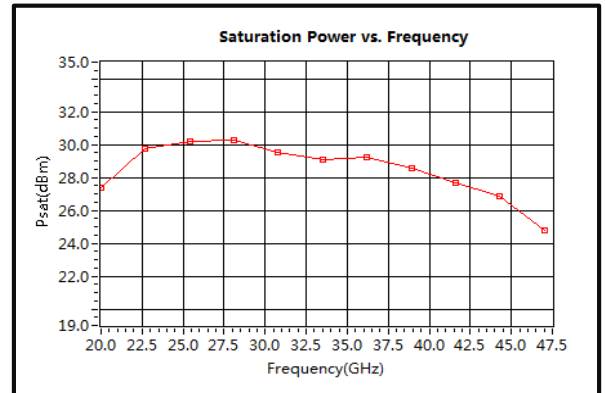
Gain vs. Output Power



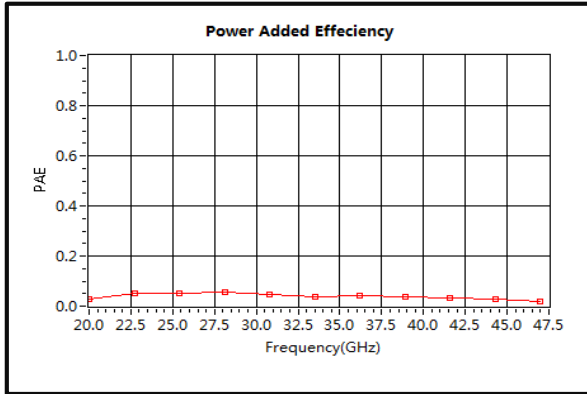
P1dB & P3dB vs. Frequency



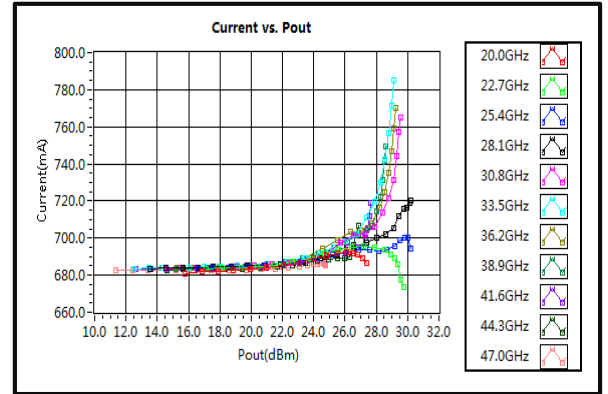
Saturation Power vs. Frequency



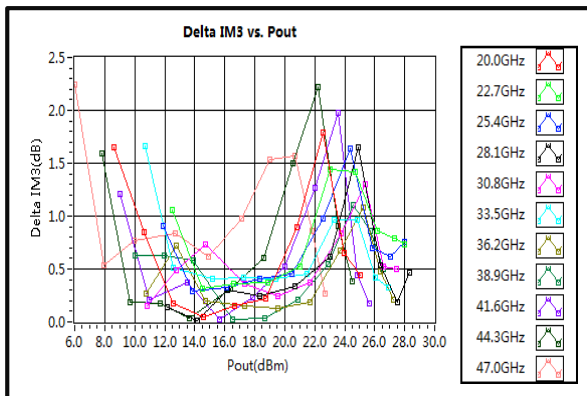
Power Added Efficiency



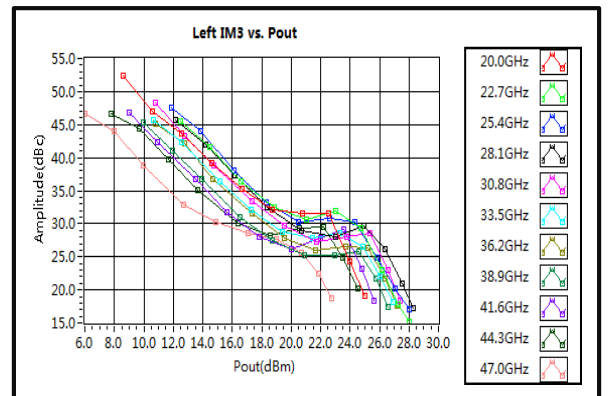
Current vs. Pout



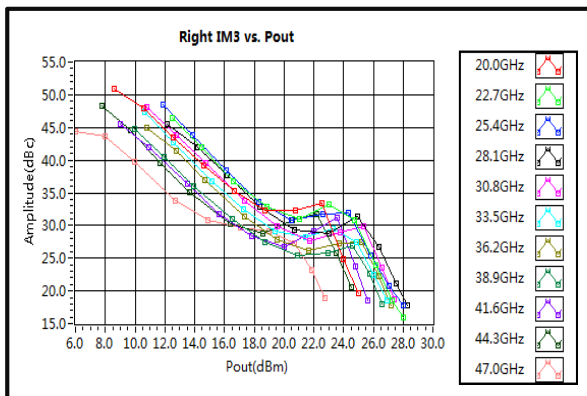
Delta IM3 vs. Pout



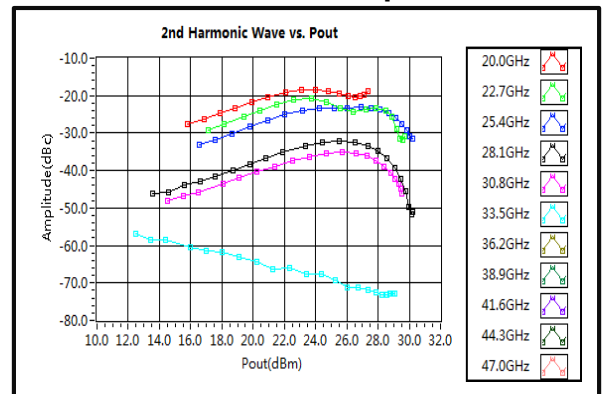
Left IM3 vs. Pout

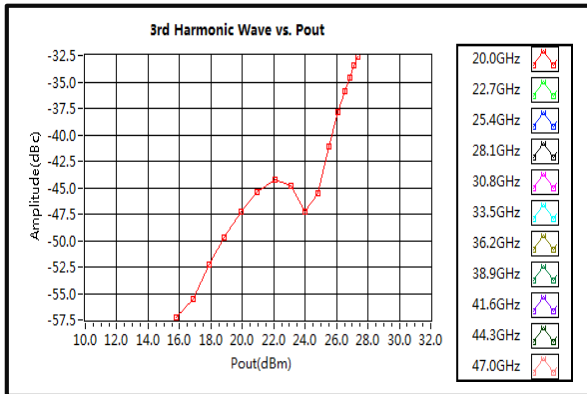


Right IM3 vs. Pout



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power


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