

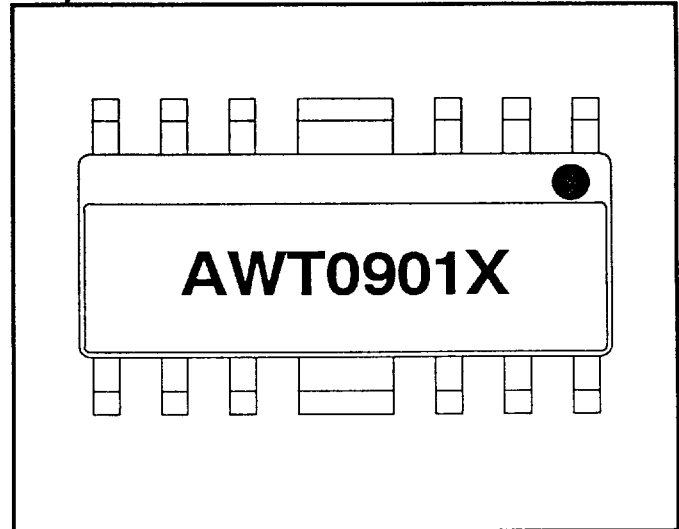
900 MHz Band DAMPS GaAs Power Amplifier IC

DESCRIPTION

The AWT0901X is a monolithic Power Amplifier suited for DAMPS cellular telephone applications in a plastic package, reducing both size and cost in next generation terminals.

FEATURES:

- High Output Power
- High Efficiency
- Low Distortion
- Small Size
- Surface Mount Package
- Low Cost



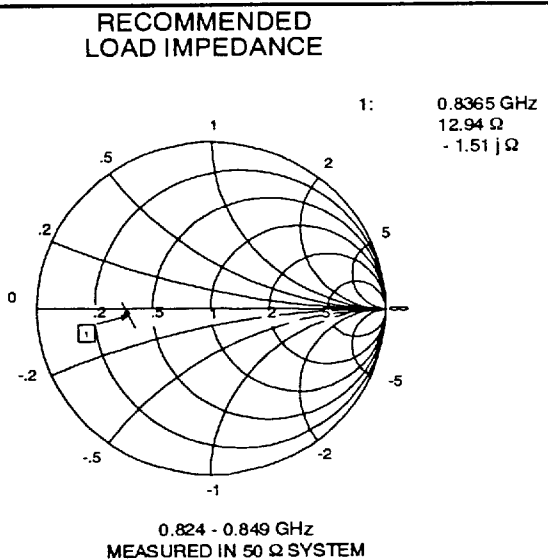
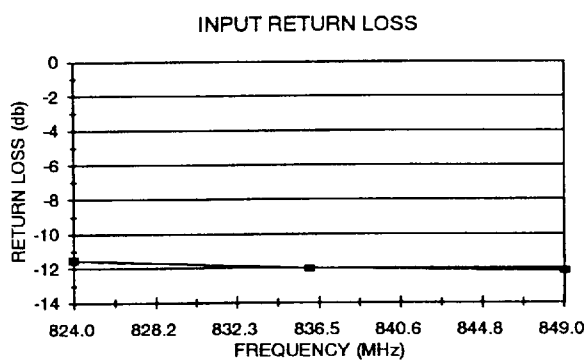
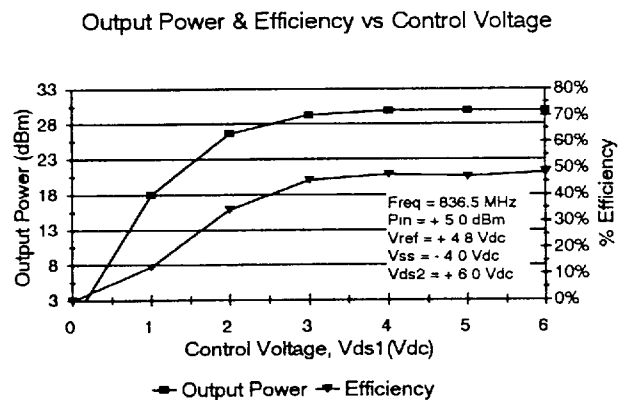
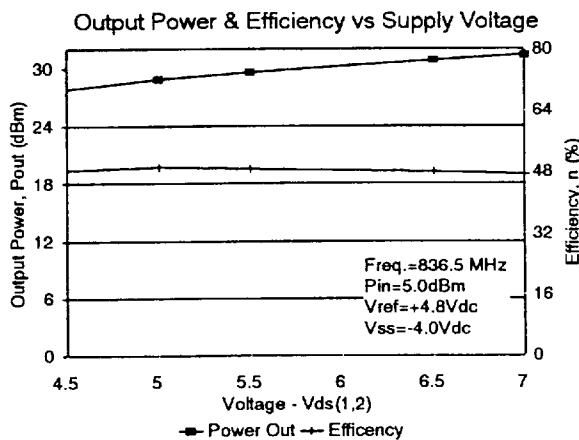
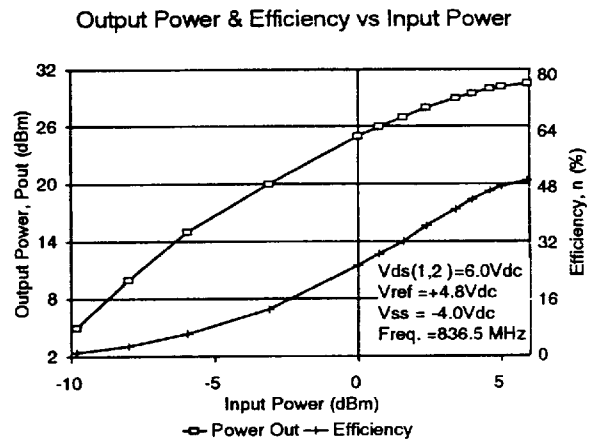
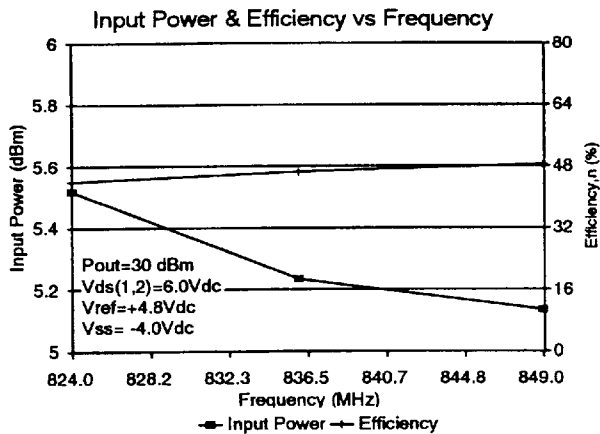
ELECTRICAL CHARACTERISTICS:

(Pin ≤ +6 dBm, f=824 - 849 MHz, Vds = +6Vdc, Vref = +4.8 Vdc, Vss = - 4Vdc, Tc = 25°C, 50Ω Input & 50Ω External Output Match)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	PARAMETER
Frequency	fo	824		849	MHz
Power Output	Pout		28		dBm
Power Added Efficiency	PAE		45		%
Gain			22		dB
Intermodulation Distortion (IMD)					dBc
3rd			- 24		
5th			- 34		
7th			- 38		
Stability: - 80 dBc, all spurious outputs relative to desired signal			6:1		VSWR load, all phase angles (Pout = Rated Pout) Vds = +6.0V, Zs = 50 Ω
Input Return Loss	Rtn _{in}		7.5		dB
Operating Range	Tc	- 20		+ 70	°C
Drain to Source Voltage	Vds		6.0		Vdc
Reference Voltage Supply Current	Iv _{ref}		4		mA
Negative Supply Current	Iv _{ss}		4		mA
Quiescent Current	I _{dsq1} + I _{dsq2}			200	mA

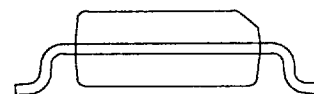
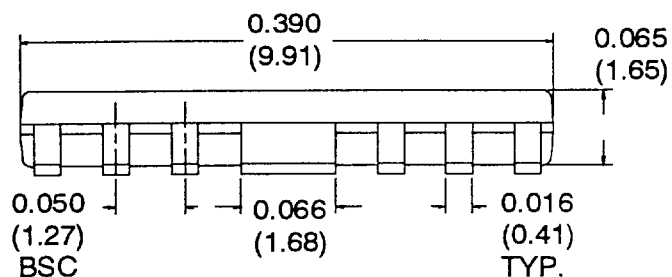
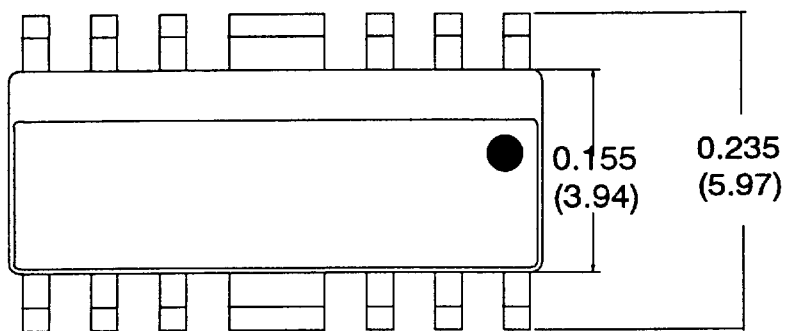
This data sheet contains technical information about product ANADIGICS is planning to introduce. The data and product specifications are subject to change prior to formal introduction. Please note: This device is NOT to be used for device qualification or production.

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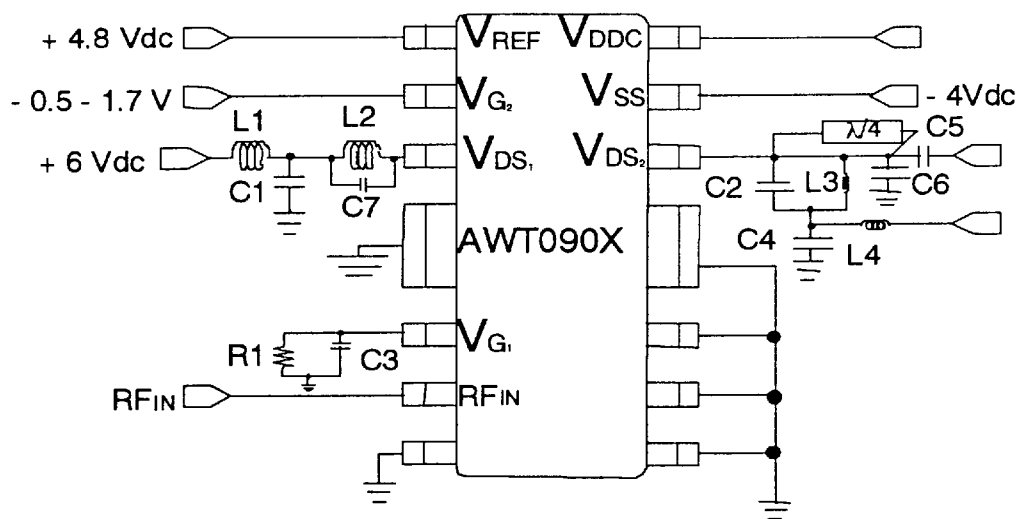


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Dimensions in inches (mm)



L1, L4:	Ferrite
L2:	12 nH
L3:	10 nH
C1, C4:	47nF
C2, C7:	2.2pF
C3, C5:	220 pF
C6:	4.7 pF

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