imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1214 – 370M

370 Watts - 50 Volts, 330 μs, 10% Radar 1200 - 1400 MHz

The 1214- capable of microseco 1400 MHz for L-Band	RAL DESCRIPTION 370M is an internally matched, COM providing 370 Watts of pulsed RF o nds pulse width, ten percent duty fact z. This hermetically solder-sealed tra d radar applications. It utilizes gold n llasting to provide high reliability and	utput power at 330 tor across the band 1200 to nsistor is specifically designed netallization and diffused	CASE OUTLINF 55ST, STYLE 1
ABSOL	JUTE MAXIMUM RATIN	GS	\sim
	Power Dissipation @ 25°C ¹	600 Watts	
			$ \langle \langle \rangle \rangle $
Maximun	n Voltage and Current		
Maximun BVces	n Voltage and Current Collector to Emitter Voltage	75 Volts	
	0	75 Volts 3.0 Volts	
BVces	Collector to Emitter Voltage		
BVces BVebo Ic	Collector to Emitter Voltage Emitter to Base Voltage	3.0 Volts	
BVces BVebo Ic Maximum	Collector to Emitter Voltage Emitter to Base Voltage Collector Current	3.0 Volts	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS	
Pout	Power Out (Note 2) Pulsed	F = 1200-1400 MHz Vcc = 50 Volts,	370		460	Watts	
Pg ηc Pd VSWR ¹	Power Gain Collector Efficiency Pulse Amplitude Droop Load Mismatch Tolerance	Pulse Width = $330 \mu s$ Duty = 10% As above F = 1400 MHz, Po = 370 W	8.7 50	9.0	0.5 2:1	dB % dB	
** Design Target							
Bvces	Collector to Emitter Breakdown	Ic = 40 mA	75			Volts	

Bvces	Collector to Emitter Breakdown	Ic = 40 mA	75			Volts	
Ices	Collector to Emitter Leakage	Vce = 50 Volts			10	mA	
Iebo	Emitter to Base Leakage Current	Veb $= 3.0$ Volts			5	mA	
Hfe	DC Current Gain	Vce = 5 V, Ic = 5 A	10	45			
$\mathbf{\theta}\mathbf{j}\mathbf{c}^{1}$	Thermal Resistance	Rated Pulse Condition			0.29	°C/W	

Issue April 2005

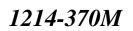
Note 1: Pulse width = 330 us, duty = 10%

Note 2: Power Input = 50 Watts Peak Pulsed

APT-RF, Inc. reserves the right to make changes without further notice. APT-RF recommends that before the product(s) described herein are written into specifications, or used in critical applications, that the performance characteristics be verified by contacting the factory.



Performance Curves



1200 MHz

1300 MHz

1400 MHz

1214-370M

Efficiency vs Power Input

19

50

40

30

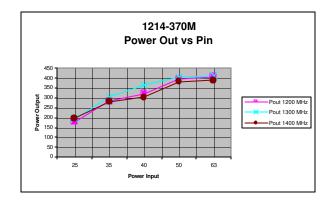
20

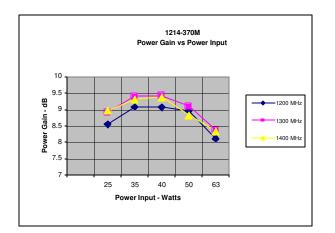
10

25 35 40 50 63

Power Input - Watts

Efficiency



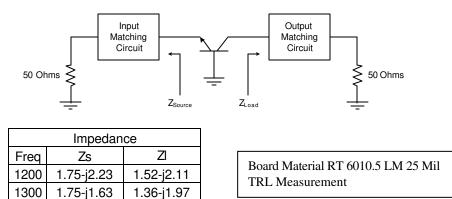


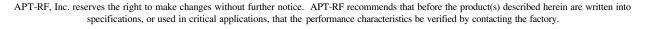
1.13-j1.77

Impedance Information

1400

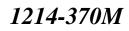
1.76-j1.19

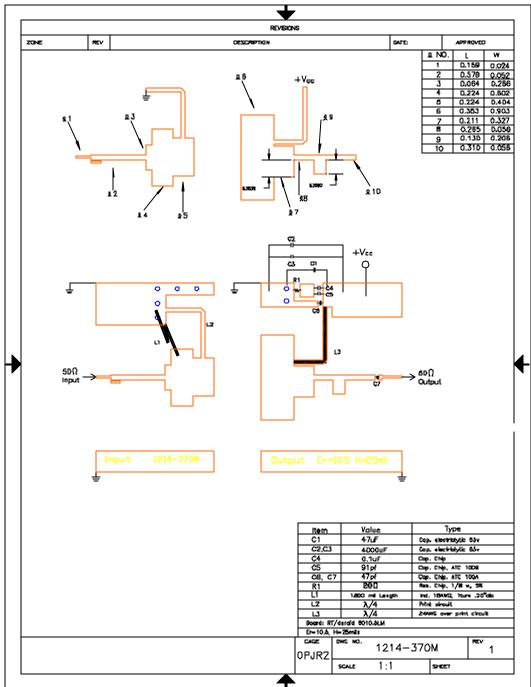






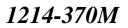
Broadband Test Fixture

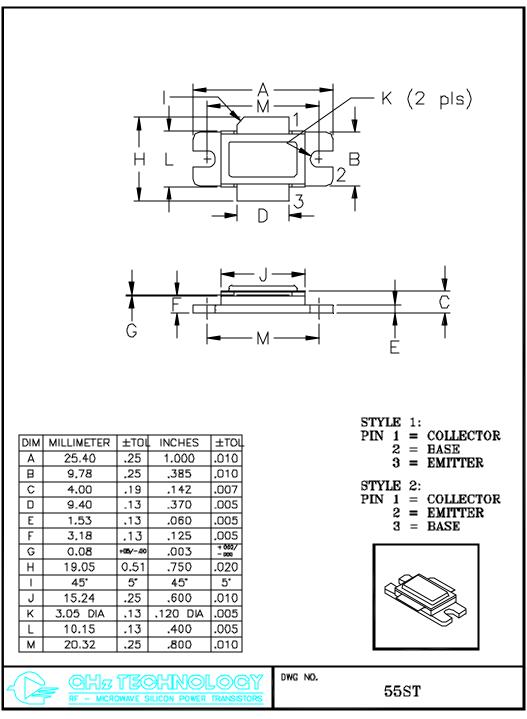




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