# mail

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!



# Contact us

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

The 1214- of providir duty factor transistor i	<b>RAL DESCRIPTION</b> 110M is an internally matched, COM ng 110 Watts of pulsed RF output por across the band 1200 to 1400 MHz. s specifically designed for L-Band rad on and diffused emitter ballasting to aggedness.	CASE OUTLINE 55KT, STYLE 1	
ABSOLUTE MAXIMUM RATINGSMaximum Power Dissipation @ 25°C270 Watts			
Maximum	n Voltage and Current		
BVces	Collector to Emitter Voltage	75 Volts	
BVebo	Emitter to Base Voltage	3.0 Volts	
Ic	Collector Current	8 Amps	
Maximum	1 Temperatures		
Storage Te	emperature	$-65 \text{ to} + 200^{\circ} \text{C}$	
Operating Junction Temperature		+ 200°C	

### ELECTRICAL CHARACTERISTICS @ 25 °C

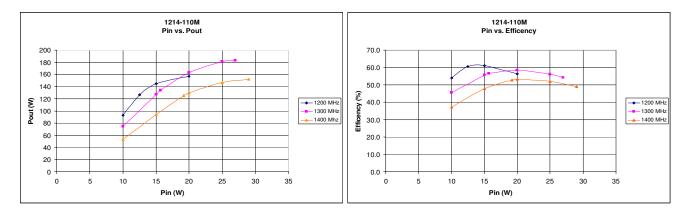
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pg ηc Rl Droop Flatness VSWR <sup>1</sup> VSWRs	Power Out Power Gain Collector Efficiency Input Return loss Droop Flatness Load Mismatch Tolerance Load Mismatch - Stability	Freq = 1200 – 1400 MHz Vcc = 50 Volts Pin = 20 Watts Pulse Width = 330µs Duty Factor = 10%	110 7.4 50 10	55	0.5 1.25 3:1 1.5:1	Watts dB % dB dB dB

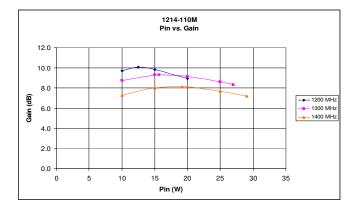
#### FUNCTIONAL CHARACTERISTICS @ 25°C

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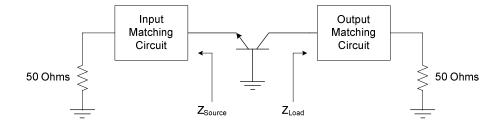


### Performance Curves





#### **Impedance Information**



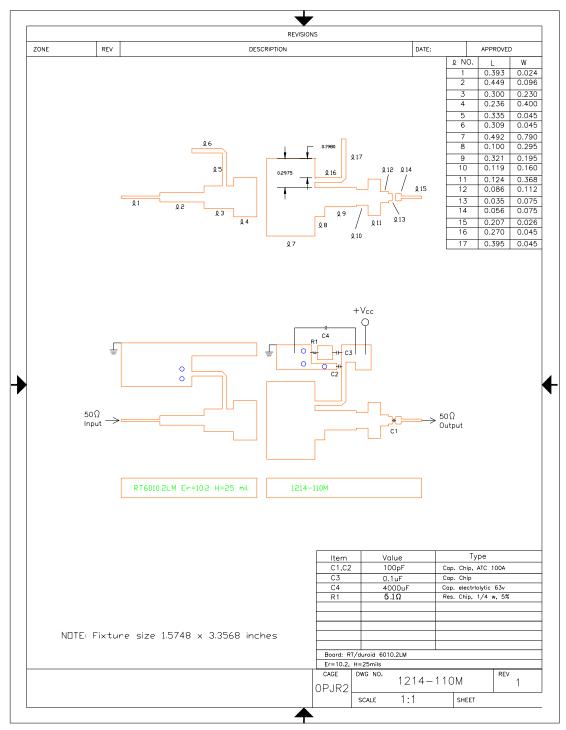
Frequencies (MHz)	$Z_{Source}(\Omega)$	$Z_{Load}(\Omega)^{2}$
1200	3.36-j3.12	4.97+j0.15
1300	3.5-j2.4	5.33-j2.86
1400	3.81-j1.3	2.88-j3.86

Note 2:  $Z_{Load}$  exclusive of bias circuit

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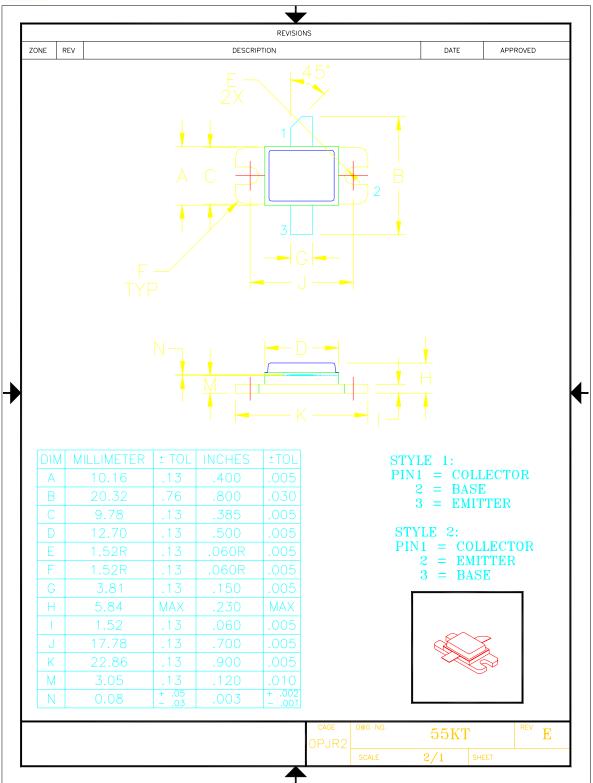


#### **Test Circuit**



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