



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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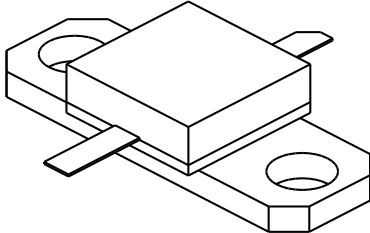
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TAN15

15 Watts, 40 Volts, Pulsed
Avionics 960 - 1215 MHz

<p>GENERAL DESCRIPTION</p> <p>The TAN15 is a COMMON BASE bipolar transistor. It is designed for pulsed systems in the frequency band 960-1215 MHz. The device has gold thin-film metallization and diffused ballasting for proven highest MTF. The transistor includes input prematch for broadband capability. Low thermal resistance package reduces junction temperature, extends life.</p>	<p>CASE OUTLINE 55LT, STYLE 1</p> 
<p>ABSOLUTE MAXIMUM RATINGS</p> <p>Maximum Power Dissipation @ 25°C² 175 Watts</p> <p>Maximum Voltage and Current</p> <p>BVces Collector to Base Voltage 50 Volts BVebo Emitter to Base Voltage 4.0 Volts Ic² Collector Current 2.0 Amps</p> <p>Maximum Temperatures</p> <p>Storage Temperature - 65 to + 150°C Operating Junction Temperature + 200°C</p>	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout	Power Out	F = 960-1215 MHz	15			Watts
Pin	Power Input	Vcc = 40 Volts			3.0	Watts
Pg	Power Gain	PW = 20 μsec	7.0	8.0		dB
η_c	Collector Efficiency	DF = 5%		40		%
VSWR	Load Mismatch Tolerance	F = 1090 MHz			10:1	

BVebo	Emitter to Base Breakdown	Ie = 5 mA	3.5			Volts
BVces	Collector to Emitter Breakdown	Ic = 10 mA	50			Volts
h_{FE}	DC - Current Gain	Ic = 10 mA, Vce = 5 V			1.0	°C/W
θjc²	Thermal Resistance					

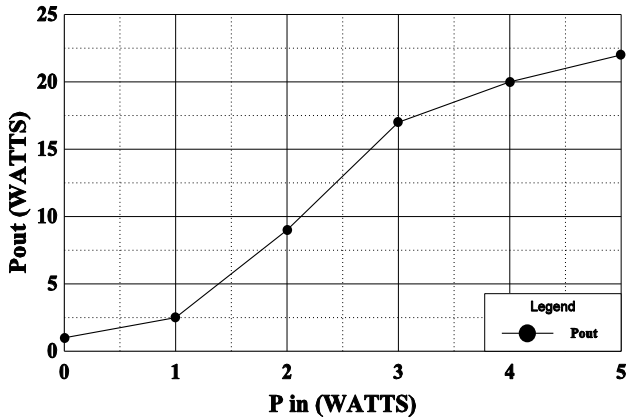
Note 1: At rated output power and pulse conditions
 Note 2: At rated pulse conditions

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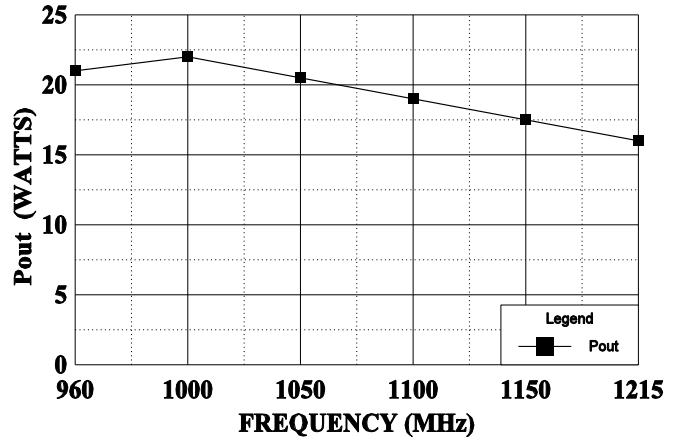
POWER OUTPUT vs POWER INPUT

Vcc = 40 V, 1090 MHz



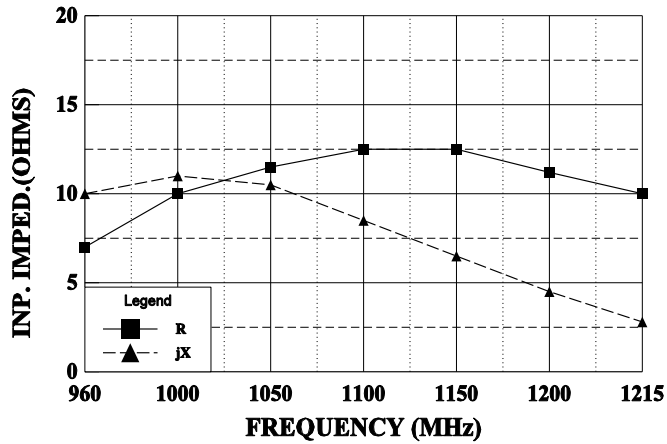
POWER OUTPUT VS FREQUENCY

Vcc = 40V, Pin = 3.0 W



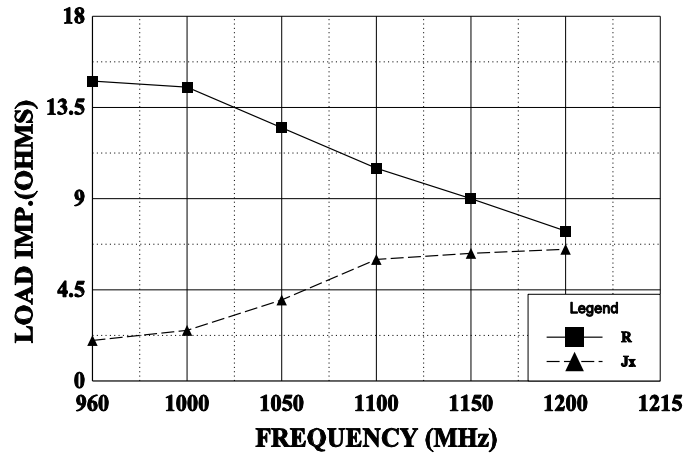
SERIES INPUT IMPEDANCE vs FREQUENCY

Vcc = 40 V, Pin = 15 W



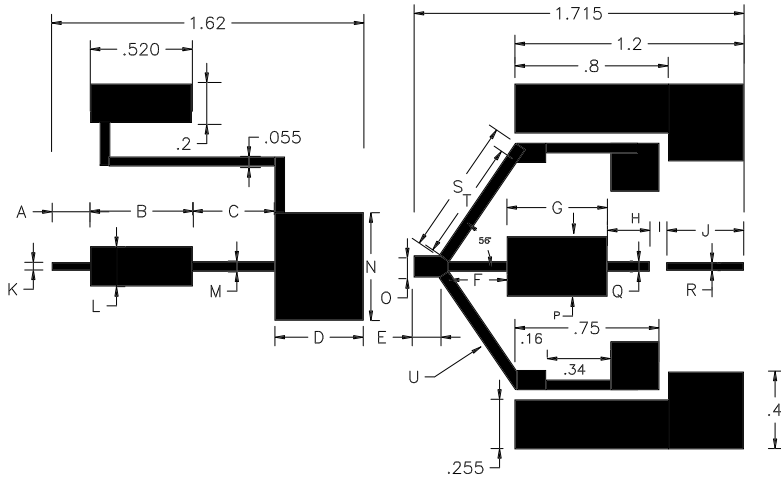
SERIES LOAD IMPEDANCE vs FREQUENCY

Vcc = 40 V, Po = 15 W



REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
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DIM	INCHES
A	.200
B	.530
C	.430
D	.460
E	.125
F	.300
G	.520
H	.240
I	.070
J	.400
K	.040
L	.205
M	.050
N	.560
O	.110
P	.310
Q	.050
R	.040
S	.710
T	.610
U	.060

TAN 15 TEST CIRCUIT

file:tan15ckt.dwg 8/17/95 jc

DIELECTRIC = 15 MIL THICK TFE Er = 2.55



CHz TECHNOLOGY

CAGE
OPJR2

DWG NO.

TAN 15

REV —

SCALE

1/1

SHEET