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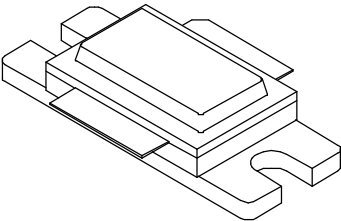
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TAN 350

350 Watts, 50 Volts, Pulsed
Avionics 960 – 1215 MHz

<p>GENERAL DESCRIPTION</p> <p>The TAN350 is a high power 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 and output prematch for broadband capability. Low thermal resistance package reduces junction temperature, extends life.</p>	<p>CASE OUTLINE 55ST Style 1</p> 
<p>ABSOLUTE MAXIMUM RATINGS</p> <p>Power Dissipation Device Dissipation @25°C (P_d) 1450 W (At rated pulse condition)</p> <p>Voltage and Current Collector to Base Voltage (BV_{ces}) 65 V Emitter to Base Voltage (BV_{ebo}) 2.0 V Collector Current (I_c) 40 A</p> <p>Temperatures Storage Temperature -65 to +200 °C Operating Junction Temperature +230 °C</p>	

ELECTRICAL CHARACTERISTICS @ 25°C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
P _{out}	Power Out	F = 960 – 1215 MHz	350			W
P _{in}	Power Input	V _{CC} = 50 Volts			70	W
P _g	Power Gain	PW = 10 μsec	7.0	7.5		dB
η _c	Collector Efficiency	DF = 10%	38	40		%
VSWR	Load Mismatch Tolerance	F = 1090 MHz	3:1			

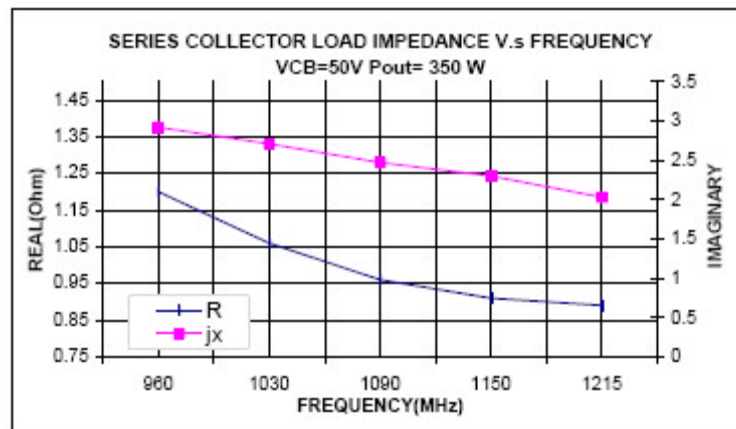
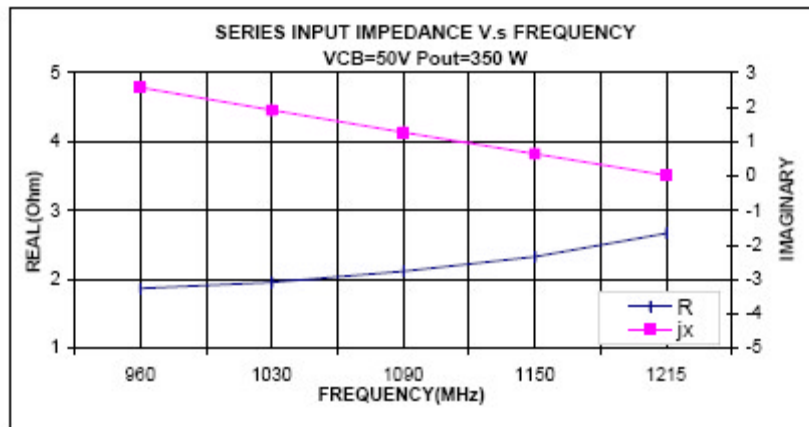
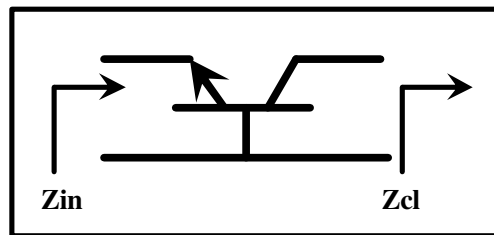
FUNCTIONAL CHARACTERISTICS @ 25°C

BV _{ebo}	Emitter to Base Breakdown	I _e = 25 mA	2.0			V
BV _{ces}	Collector to Emitter Breakdown	I _c = 50 mA	65			V
h _{FE}	DC – Current Gain	I _c = 1A, V _{ce} = 5V	10			
θ _{jc} ²	Thermal Resistance			.12		°C/W

Rev A - Sept. 2005

TAN350

Frequency	Zin		ZCL	
	R	jx	R	jx
960	1.87	2.58	1.2	2.92
1030	1.96	1.92	1.06	2.71
1090	2.12	1.27	0.96	2.47
1150	2.33	0.65	0.91	2.3
1215	2.67	0.03	0.89	2.03



TAN350

REVISED

REV	DATE	DESCRIPTION	BY	APPROVED

NOTES, UNLESS OTHERWISE SPECIFIED:

- ONLY THE ITEM DESCRIBED ON THIS DRAWING WHEN PRODUCED FROM THE "APPROVED SUPPLIER LIST" IS APPROVED FOR USE IN THE APPLICATION SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND APPROVAL BY SHZ.

DIM	INCHES	DIM	INCHES
d	.0233	n	.175
b	.323	o	.450
c	.127	p	.080
d	.125	q	.384
e	.278	r	.030
f	.247	s	.177
g	.345	t	.507
h	.5417	u	.215
i	.253	v	.100
l	1.210	x	.037
k	.370	y	.435
m	.084	z	.070
m	.152	z	2.000

TERMINOLOGY

REF: BT #22446G-2000^o Dia
 C1 = CHT 91P1 ATC B
 C2 = 1000UF 16V Electrolytic
 C3 = 0.01UF ATC A
 C4-C5 = 0-3.50F JONHONSON URMIMAR CAPACITORS
 Vcc = 50 V.

PROPERTIES

MAXIMUM RATED VOLTAGE: 50V
 MAXIMUM RATED CURRENT: 3.50A
 MAXIMUM POWER: 3.50W

MATERIALS

Drifted Molybdenum
 Er = 10.2
 H = 25 mils
 T = 1.0 Oz.

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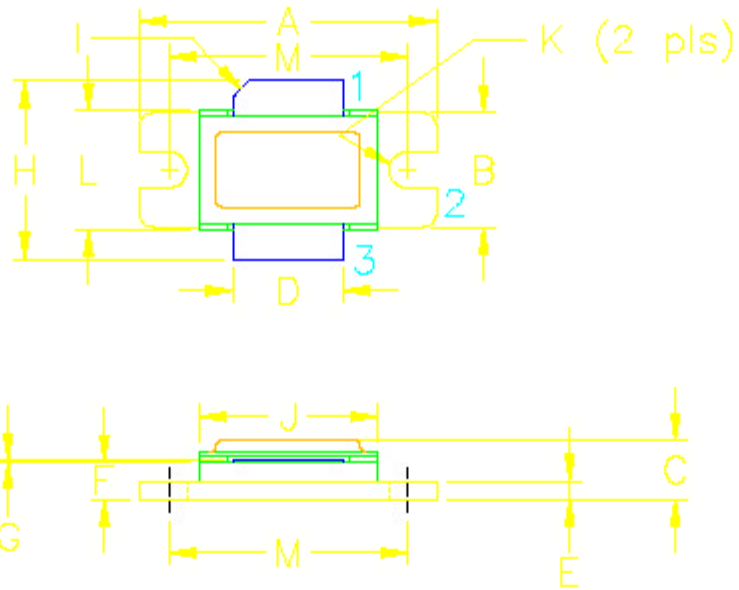
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CHT TECHNOLOGY

3000 QUAKER VALLEY DRIVE
 BAYTOWN, TX 77607-4809

SIZE	DATE CODE	FILE	SCALE	REV
A	OPJR2	TAN 350	4.0X 5	A

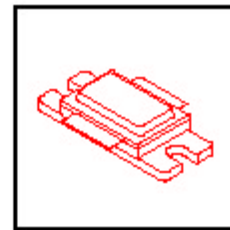
TAN350



DIM	MILLIMETER	±TOL	INCHES	±TOL
A	25.40	.25	1.000	.010
B	9.78	.25	.385	.010
C	4.00	.19	.142	.007
D	9.40	.13	.370	.005
E	1.53	.13	.060	.005
F	3.18	.13	.125	.005
G	0.08	+06/-20	.003	+002/-000
H	19.05	0.51	.750	.020
I	45°	5°	45°	5°
J	15.24	.25	.600	.010
K	3.05 DIA	.13	.120 DIA	.005
L	10.15	.13	.400	.005
M	20.32	.25	.800	.010

STYLE 1:
 PIN 1 = COLLECTOR
 2 = BASE
 3 = EMITTER

STYLE 2:
 PIN 1 = COLLECTOR
 2 = EMITTER
 3 = BASE



DWG NO.

55ST