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PH1090-75L

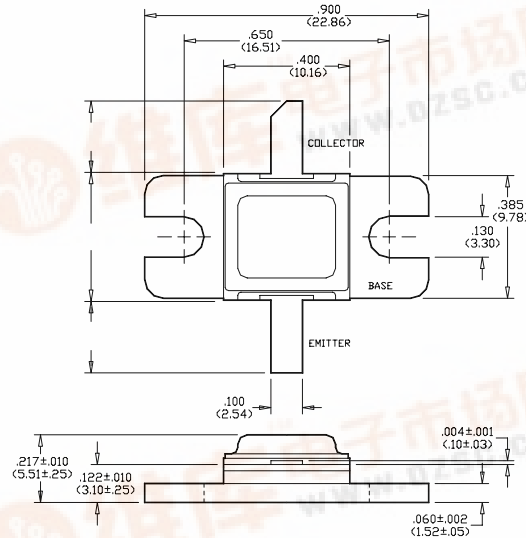
AVIONICS PULSED POWER TRANSISTOR

75 WATTS, 1030 - 1090 MHz, 250μs PULSE, 10% DUTY

FEATURES

- Designed for Pulsed Avionics Applications
- NPN Silicon Microwave Power Transistor
- Common Base Configuration
- Broadband Class C Operation
- Diffused Emitter Ballasting Resistors
- Gold Metalization System
- Internal Input and Output Impedance Matching
- Hermetic Metal/Ceramic Package

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS AT 25°C

Parameter	Symbol	Rating	Units
Collector-Emitter Voltage	V_{CES}	70	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Collector Current (Peak)	I_C	6	A
Total Power Dissipation	P_D	160	W
Storage Temperature	T_{STG}	-65 to +200	°C
Junction Temperature	T_J	200	°C

ELECTRICAL CHARACTERISTICS AT 25°C

Parameter	Symbol	Min	Max	Units	Test Conditions
Collector-Emitter Breakdown Voltage	BV_{CES}	70	-	V	$I_C=35mA$
Collector-Emitter Leakage Current	I_{CES}	-	3.5	mA	$V_{CE}=40V$
Thermal Resistance	$R_{TH(JC)}$	-	1.5	°C/W	$V_{CC}=45V$, $P_{out}=75W$, $F=1.03$, 1.09 GHz
Output Power	P_{OUT}	75	-	W	$V_{CC}=45V$, $P_{in}=9W$, $F=1.03$, 1.09 GHz
Power Gain	G_P	9	-	dB	$V_{CC}=45V$, $P_{out}=75W$, $F=1.03$, 1.09 GHz
Collector Efficiency	η_C	45	-	%	$V_{CC}=45V$, $P_{out}=75W$, $F=1.03$, 1.09 GHz
Input Return Loss	RL	8	-	dB	$V_{CC}=45V$, $P_{out}=75W$, $F=1.03$, 1.09 GHz
Load Mismatch Tolerance	$VSWR-T$	-	3:1	-	$V_{CC}=45V$, $P_{out}=75W$, $F=1.03$, 1.09 GHz
Load Mismatch Stability	$VSWR-S$	-	1.5:1	-	$V_{CC}=45V$, $P_{out}=75W$, $F=1.03$, 1.09 GHz

BROADBAND TEST FIXTURE IMPEDANCE

F (MHz)	$Z_{IF} (\Omega)$	$Z_{OF} (\Omega)$
1030	$2.6 - j6$	$9.4 + j2$
1090	$2.3 - j5.6$	$11 + j0.2$

