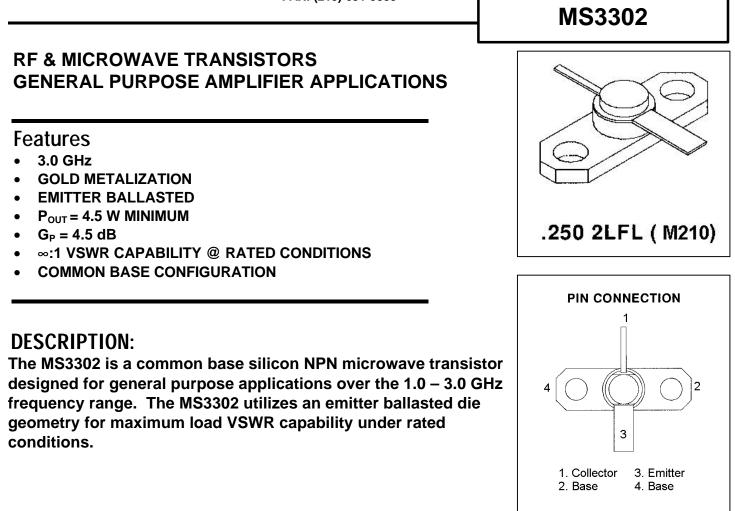


140 COMMERCE DRIVE MONTGOMERYVILLE, PA 18936-1013 PHONE: (215) 631-9840 FAX: (215) 631-9855



ABSOLUTE MAXIMUM RATINGS (Tcase = 25°C)

Symbol	Parameter	Value	Unit
P _{DISS}	Power Dissipation	17.6	W
V _{cc}	Collector-Supply Voltage	30	V
Ι _c	Device Current	700	mA
TJ	Junction Temperature	200	°C
T _{STG}	Storage Temperature	-65 to +200	°C

Thermal Data

R _{TH(J-C)} Thermal Resistance Junction-case	8.5	°C/W
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*Applies only to rated RF amplifier operation



MS3302

ELECTRICAL SPECIFICATIONS (Tcase = 25°C) STATIC

Symbol	Test Conditions		Value			
Symbol	Test conditions		Min.	Тур.	Max.	Unit
BVcbo	I _c = 1mA	I _E = 0mA	45			V
BVcer	l _c = 5mA	R _{BE} = 10Ω	45			v
BVebo	I _E = 1mA	I _C = 0mA	3.5			v
lcbo	V _{CE} = 28V				0.5	mA
H _{FE}	V _{CE} = 5V	I _c = 500mA	30		300	

DYNAMIC

Symbol	Symbol Test Conditions			Value			
Symbol			Min.	Тур.	Max.	Unit	
Ρουτ	f = 3.0GHz	P _{IN} = 1.59W	$V_{cc} = 28V$	4.5			w
G _P	f = 3.0GHz	P _{IN} = 1.59W	$V_{CC} = 28V$	4.5			dB
η _c	f = 3.0GHz	P _{IN} = 1.59W	$V_{CC} = 28V$	30			%
Сов	f =1 MHz	V _{CB} =28V				7.5	pf

IMPEDANCE DATA

FREQ	$Z_{IN}(\Omega)$	$Z_{CL}(\Omega)$		
1.0 GHz	1.7 + j7.2	9.5 + j15.5		
1.7 GHz	2.0 + j11.2	4.2 + j6.7		
2.0 GHz	2.4 + j14.0	3.5 + j2.5		
2.3 GHz	3.6 + j17.4	3.1 + j1.2		
2.7 GHz	6.0 + j21.0	3.0 – j3.8		
3.0 GHz	9.5 + j24.0	3.0 – j7.2		
Vcc=28V				

 $v_{CC}=28V$ $P_{IN}=1.6W$



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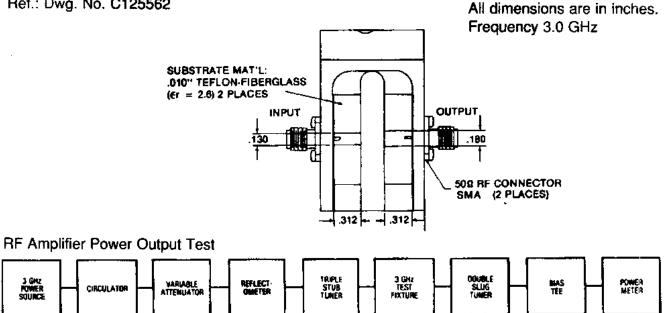
MICROLAS HNI 30H

+ VCC

MICROLAB SF 31N

TEST CIRCUIT

Ref.: Dwg. No. C125562

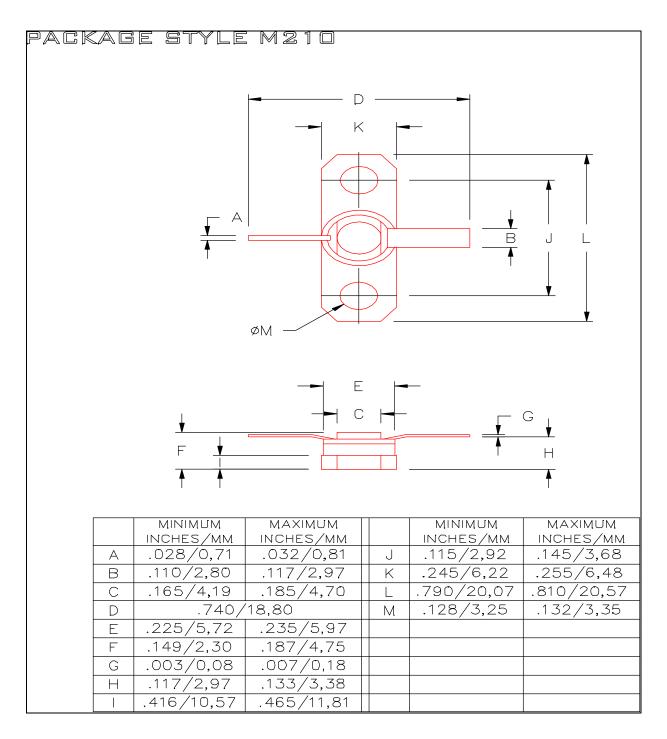


NARDA 904N



MS3302

PACKAGE MECHANICAL DATA



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