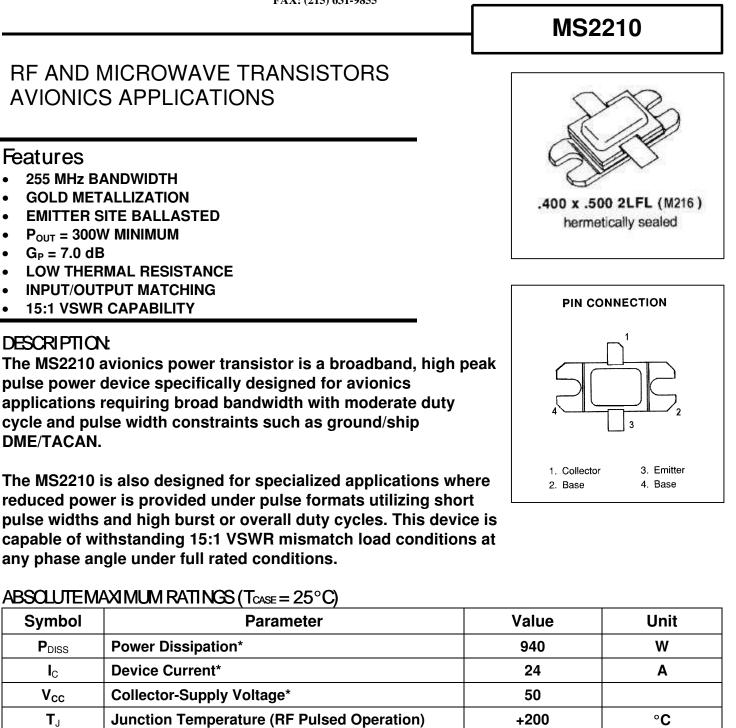


140 COMMERCE DRIVE MONTGOMERYVILLE, PA 18936-1013 PHONE: (215) 631-9840 FAX: (215) 631-9855



THERMAL DATA

T_{STG}

R _{TH(j-c)} Junction-Case Thermal Resistance*	0.16	°C/W
--	------	------

- 65 to + 200

°C

*Applies only to rated RF amplifier operation

Storage Temperature



ELECTRICAL SPECIFICATIONS ($T_{CASE} = 25^{\circ}C$)

STATIC

Symbol	Test Conditions		Value			
Symbol			Min.	Тур.	Max.	Unit
BV _{CBO}	l _c = 50 mA	l _E = 0 mA	65			V
BV _{EBO}	l _E = 15 mA	l _c = 0 mA	3.0			V
BV _{CER}	l _c = 50 mA	R_{BE} = 10 Ω	65			V
ICES	V _{CE} = 50 V				30	mA
h _{FE}	$V_{CE} = 5 V$	l _c = 5A	10			

DYNAMIC

Symbol	Test Conditions	Value			Unit
Symbol Test Conditions		Min.	Тур.	Max.	Onit
Ρουτ	$f = 960 - 1215 \text{ MHz} P_{IN} = 60 \text{ W} V_{CC} = 50 \text{ V}$	300	330		W
η _c	$f = 960 - 1215 \text{ MHz} P_{IN} = 60 \text{ W} V_{CC} = 50 \text{ V}$	38	45		%
G _P	$f = 960 - 1215 \text{ MHz} P_{IN} = 60 \text{ W} V_{CC} = 50 \text{ V}$	7.0	7.4		Db

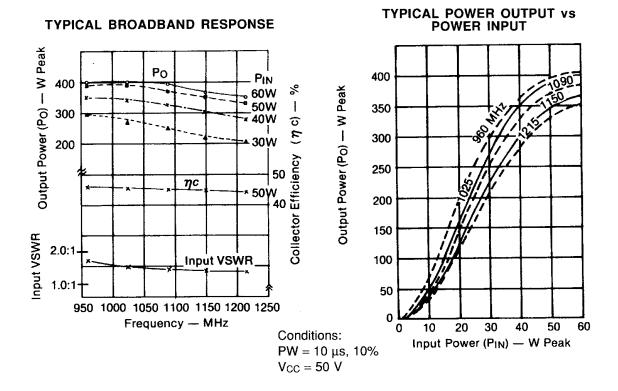
Note: Pulse Format: 10 µS Duty Cycle: 10%

IMPEDANCE DATA

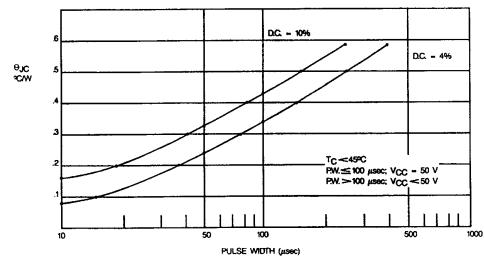
FREQ	$Z_{IN}(\Omega)$	$Z_{CL}(\Omega)$
960 MHz	2.0 + j3.6	1.7 - j2.2
1090 MHz	3.5 + j1.7	2.0 - j1.7
1215 MHz	1.6 + j0.5	1.8 - j2.0



TYPICAL PERFORMANCE



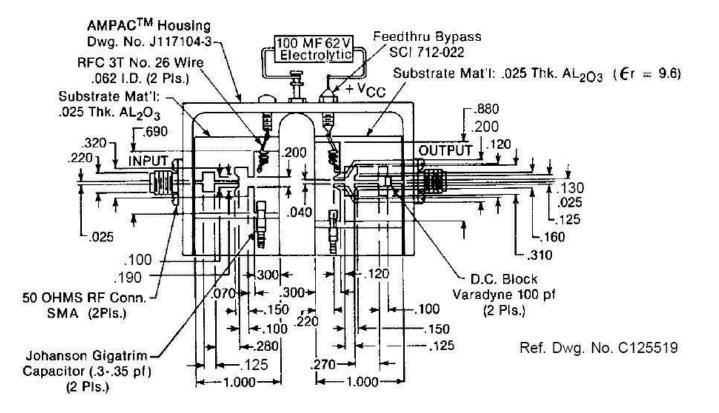
MAXIMUM THERMAL RESISTANCE vs PULSE WIDTH & DUTY CYCLE



Advanced Power Technology reserves the right to change, without notice, the specifications and information contained herein Visit our website at **WWW.ADVANCEDPOWER.COM** or contact our factory direct.



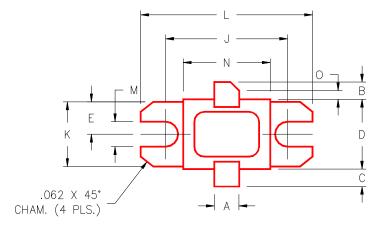
TEST CIRCUIT

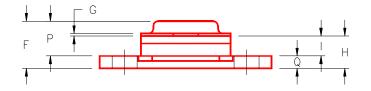




PACKAGE MECHANICAL DATA

PACKAGE STYLE M216





	MINIMUM	MAXIMUM		MINIMUM	MAXIMUM
	INCHES/MM	INCHES/MM		INCHES/MM	INCHES/MM
A	.140/3,56		J	.700/	17,78
В	.110/	′2,80	K	.386/9,80	
С	.110/	′2,80	L	.900/22.86	
D	.395/10,03	.407/10,34	М	.120/3,05	
E	.193/	/4,90	N	.500/12,70	
F		.230/5,84	0	.050/1,27	
G	.003/0,08	.006/0,15	P		.170/4,32
Н	.118/3,00	.131/3,33	Q	.062/1,58	
	.063	/1,60			