

MOTOROLA RF DEVICE DATA 2-615



MRF427, MRF427A

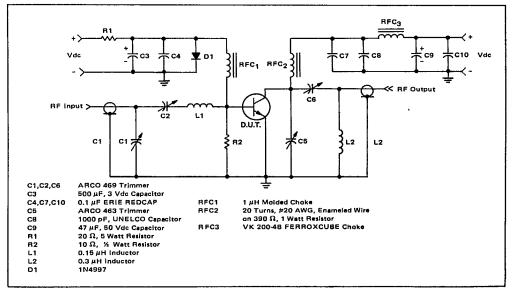
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F427, WIRF427A	MOTOROLA SC	хѕт	RS/R	F	
ELECTRICAL CHARACTERISTICS (TC =	25 ⁰ C unless otherwise noted.)			7	33
Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS			-	•	
Collector-Emitter Breakdown Voltage (IC = 200 mAdc, IB = 0)	V(BR)CEO	65	-	-	Vdc
Collector-Emitter Breakdown Voltage (I _C = 100 mAdc, V _{BE} = 0)	V(BR)CES	110	-	-	Vdc
Collector-Base Breakdown Voltage (IC = 100 mAdc, IE = 0)	V(BR)CBO	110	-	-	Vdc
Emitter-Base Breakdown Voltage (IE = 10 mAdc, IC = 0)	V(BR)EBO	4.0		-	Vdc
ON CHARACTERISTICS		····			
DC Current Gain (I _C = 500 mAdc, V _{CE} = 5.0 Vdc)	hfe	15	-	90	-
DYNAMIC CHARACTERISTICS				_	
Output Capacitance (V _{CB} = 50 Vdc, 1 _E = 0, f = 1.0 MHz)	С _{ор}	_	-	60	pF
FUNCTIONAL TESTS				·	d
Common-Emitter Amplifier Power Gain (V _{CC} = 50 Vdc, P _{out} = 25 W(PEP), f = 30 MHz	e) G _{pe}	18	20	-	dB
Intermodulation Distortion (V _{CC} = 50 Vdc, P _{out} = 25 W(PEP))	IMD	-34	-37	-	dB
Electrical Ruggedness (V _{CC} = 50 Vdc, P _{OUt} = 25 W(PEP), f = 30 MHz VSWR 30:1) All Phase Angles	ī,	No Degradation in Output Power			

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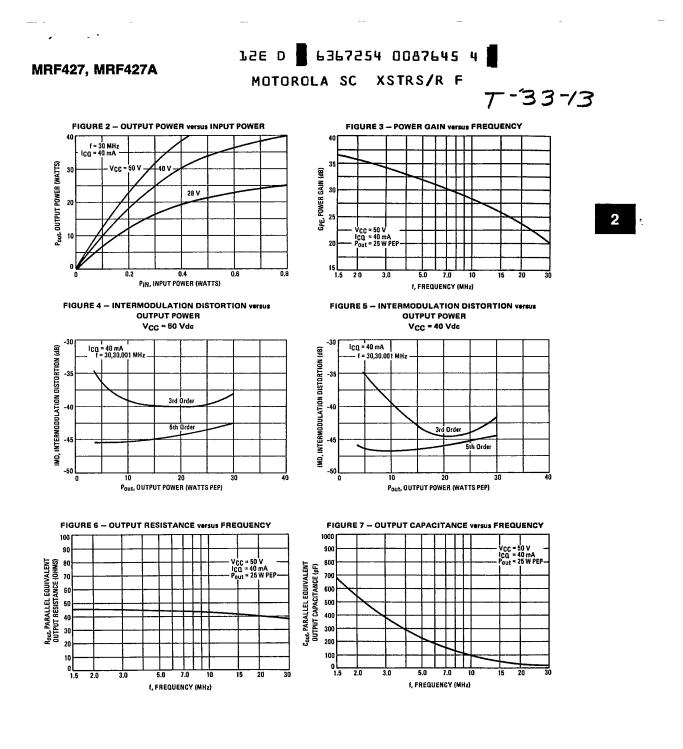
FIGURE 1 - 30 MHz TEST CIRCUIT SCHEMATIC



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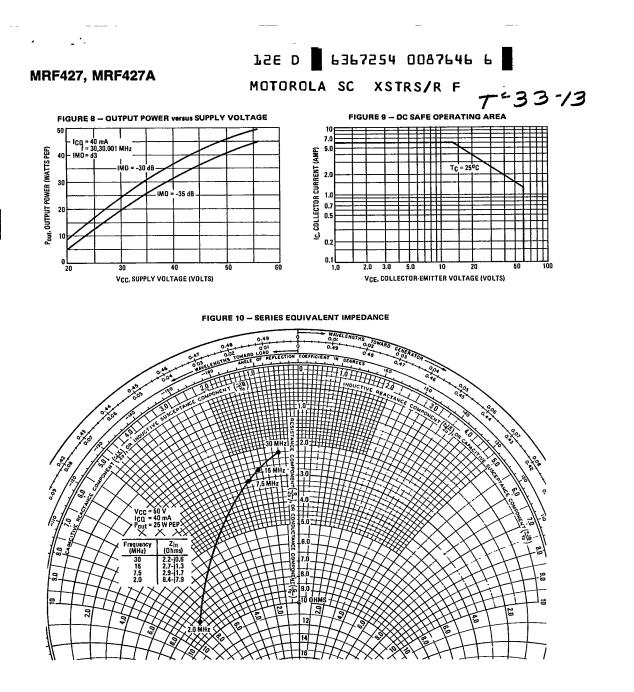
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MOTOROLA RF DEVICE DATA 2-617

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