查询PF0010供应商 捷多邦，专业PCB打样工厂，24小时加急出货

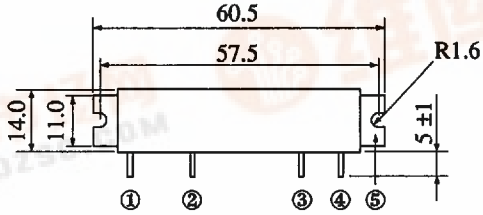
PF0010

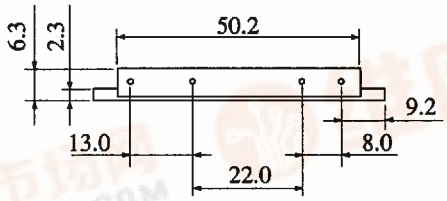
HIGH FREQUENCY POWER MOS FET MODULE

UHF Band 820-850 MHz

■ FEATURES

- Include Input and Output Matching Circuit
- Easy to Control Output Power
- Superior to Stability at Load Mismatching





①Pin
② V_{APC}
③ V_{DD}
④Pout
⑤GND
(Dimensions in mm)

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	Rating	Unit
Supply Voltage	V_{DD}	17	V
Maximum Circuit Current	I_D	3.0	A
APC Voltage	V_{APC}	8	V
Maximum Input Power	P_{in}	20	mW
Operating Maximum Case Temperature	$T_{c(op)}$	−40～+100	℃
Storage Temperature	T_{stg}	−45～+125	℃

■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

Item	Symbol	Test Condition	min.	typ.	max.	Unit
Drain Cutoff Current	I_{DS}	$V_{DD1}=V_{DD2}$=17V, V_{APC}=0	–	–	500	μA
Total Efficiency	η_T	f=820, 850MHz,	35	40	–	%
2nd Harmonic Distortion	2nd H.D.	P_{in}=2mW,	–	−50	−30	dB
3rd Harmonic Distortion	3rd H.D.	V_{DD}=12.5V,	–	−50	−30	dB
Input VSWR	VSWR(in)	P_{out}=6W(at APC Control)	–	1.5	3.0	–
Output VSWR	VSWR(out)	$Z_{in}=Z_{out}$=50Ω	–	1.5	–	–
Stability	–	V_{DD}=12.5V, P_{in}=2mW, f=820MHz, P_{out}=6W(at APC Control), R_g=50Ω, Output VSWR ≒ ∞ All Phase, t=20sec	No Parastic Oscillation			–

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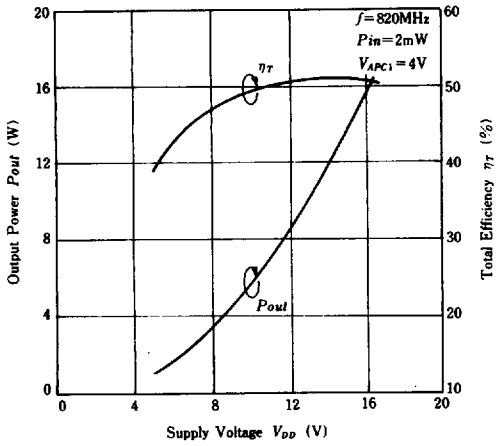
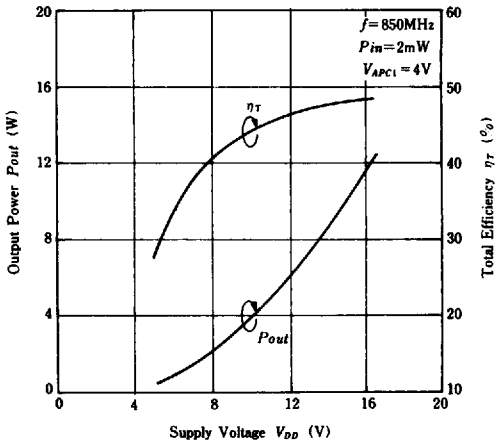
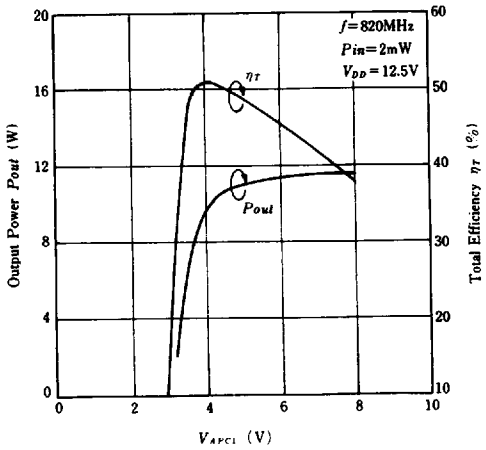
Pout, η_T VS. V_{DD}



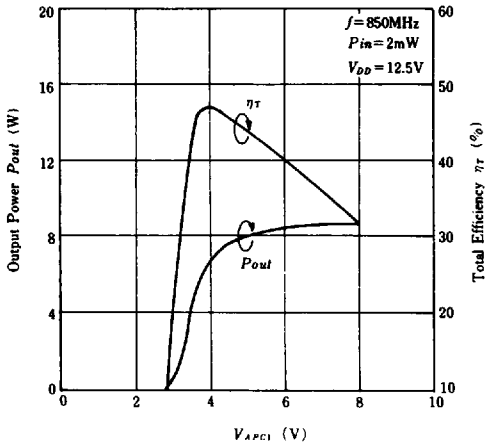
Pout, η_T VS. V_{DD}



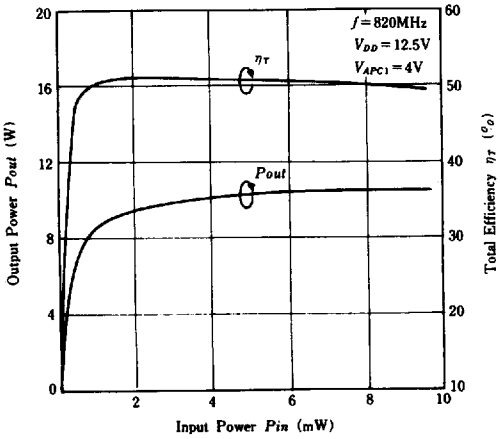
Pout, η_T VS. V_{APC1}



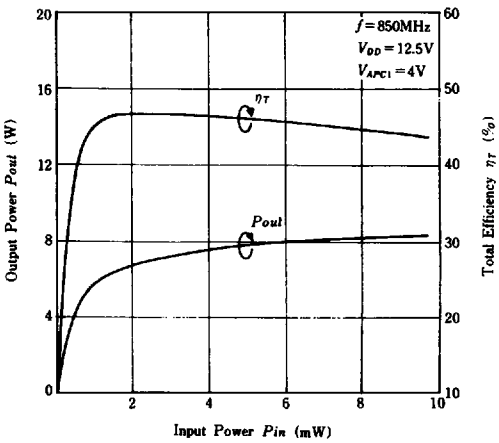
Pout, η_T VS. V_{APC1}



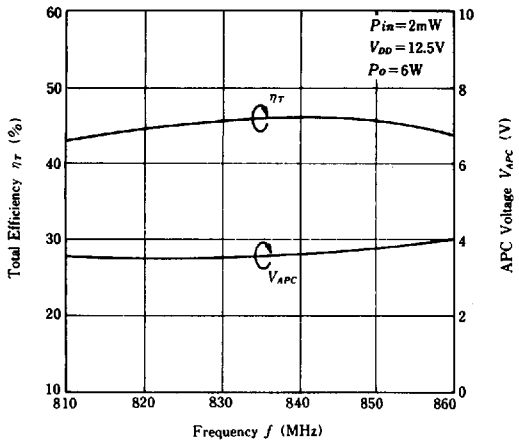
Pout, η_T VS. P_{in}



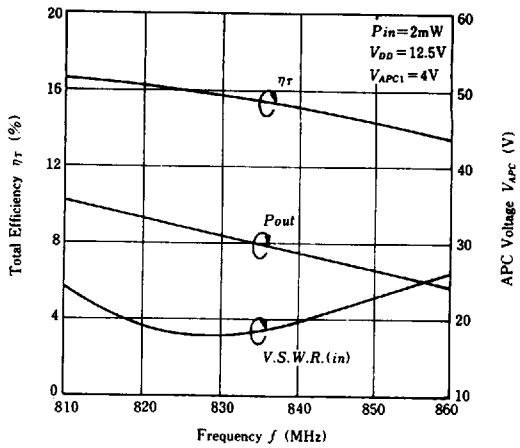
Pout, η_T VS. P_{in}



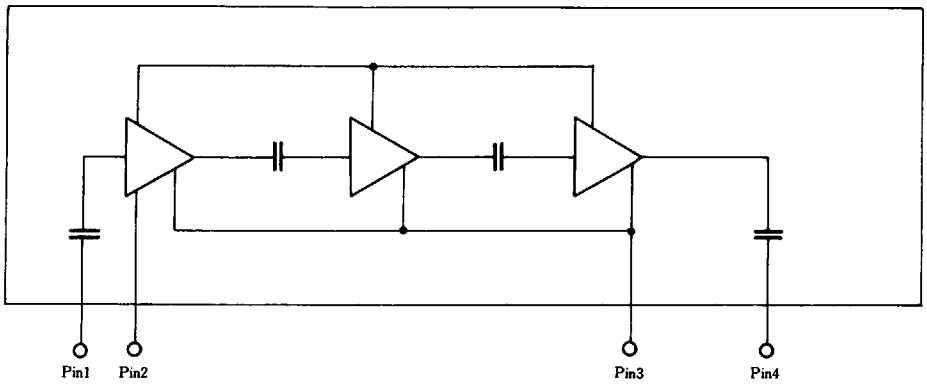
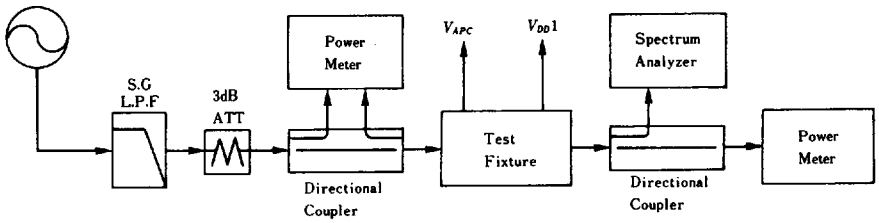
η_T, V_{APC} VS. FREQUENCY



Pout, η_T, VSWR(in) VS. FREQUENCY



■INTERNAL DIAGRAM



■TEST SYSTEM DIAGRAM