

PRELIMINARY
not a final specification.
subject to change

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Notice: This is not a final specification.
Some parametric limits are subject to change.

4.4

**MITSUBISHI
ELECTRIC**

PRELIMINARY

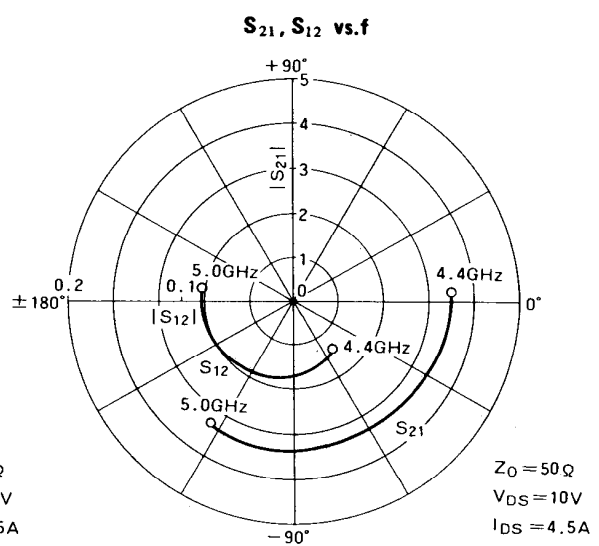
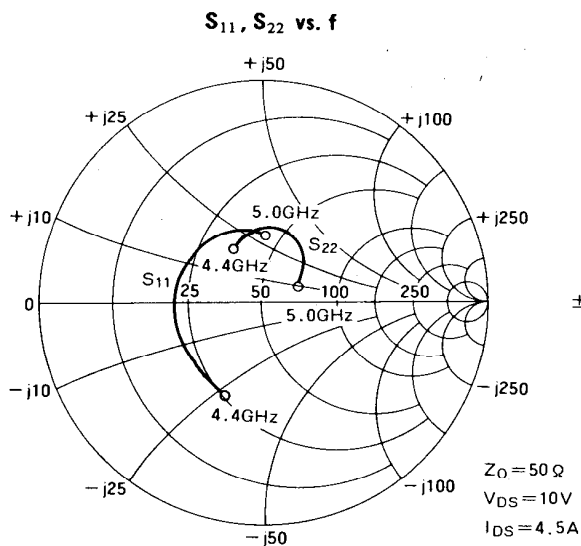
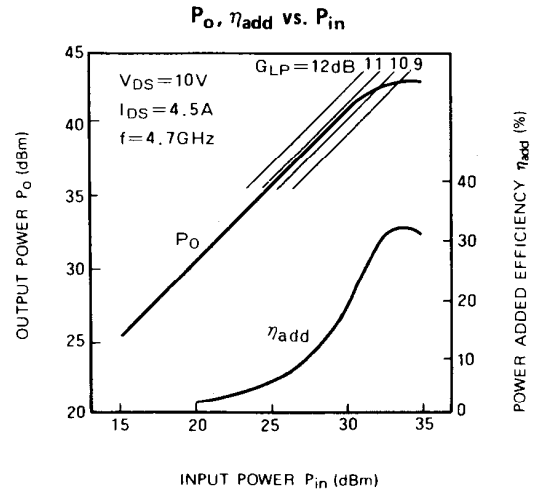
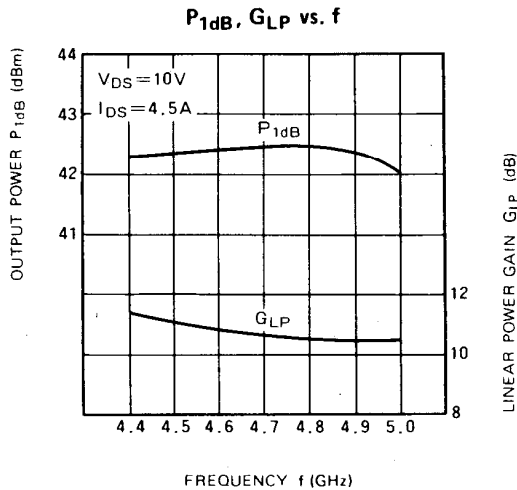
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MITSUBISHI SEMICONDUCTOR <GaAs FET>

MGFC42V4450A

4.4~5.0GHz BAND 16W INTERNALLY MATCHED GaAs FET

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)



S PARAMETERS ($T_a = 25^\circ\text{C}$, $V_{DS} = 10\text{V}$, $I_{DS} = 4.5\text{A}$)

f (GHz)	S Parameters (TYP.)							
	S_{11}		S_{21}		S_{12}		S_{22}	
	Magn.	Angle (deg.)	Magn.	Angle (deg.)	Magn.	Angle (deg.)	Magn.	Angle (deg.)
4.4	0.46	-113	3.63	3	0.054	-49	0.31	121
4.5	0.41	-156	3.50	-20	0.063	-78	0.33	101
4.6	0.40	-179	3.45	-38	0.068	-93	0.33	90
4.7	0.38	154	3.42	-61	0.072	-123	0.33	79
4.8	0.37	135	3.38	-77	0.075	-140	0.31	71
4.9	0.33	109	3.34	-101	0.078	-167	0.25	51
5.0	0.29	89	3.27	-122	0.079	172	0.17	22