



GaAs FET Product Summary

Power Optimized Products (Chip Performance)

CHIP P/N HMF-	G _{1dB} (dB)		P _{1dB} (dBm)		MAG (dB)	P _{MAG} (dBm)	TEST FREQ (GHz)	BIAS V _{DS} , I _{DS}	DETAIL DATA SHEET STARTS ON PAGE	
	MIN	TYP	MIN	TYP	TYP	TYP			CHIP	PACKAGED
03000	7.5	8.5	20.5	21.5	12.0	18.0	8	8 V, 50% I _{DSS}	2-3	3-1, 3-5
06000	7.0	8.0	23.5	24.5	10.5	22.0	8	8 V, 50% I _{DSS}	2-15	3-21
12000-100	6.0	7.5	25.5	26.5	9.5	25.0	8	8 V, 50% I _{DSS}	2-27	
12000-200	6.5	7.5	27.0	27.5	9.5	25.0	8	8 V, 50% I _{DSS}	2-27	3-37, 3-41
24000-100	4.0	5.5	28.5	29.5	7.0	28.0	8	8 V, 50% I _{DSS}	2-35	
24000-200	4.5	5.5	30.0	30.5	7.0	28.0	8	8 V, 50% I _{DSS}	2-35	3-45, 3-49

Gain Optimized Products (Chip Performance)

CHIP P/N HMF-	MAG (dB)		P _{MAG} (dBm)	G _{1dB} (dB)	P _{1dB} (dBm)		TEST FREQ (GHz)	BIAS V _{DS} , I _{DS}	DETAIL DATA SHEET STARTS ON PAGE	
	MIN	TYP	TYP	TYP	MIN	TYP			CHIP	PACKAGED
03100-100	5.0	7.0	14.0	4.5	—	15.0	18	6 V, 50% I _{DSS}	2-7	
03100-200	6.0	7.0	14.0	4.5	18.0	19.0	18	6 V, 50% I _{DSS}	2-7	3-9, 3-13
03100-300	6.0	7.0	14.0	4.5	20.0	21.0	18	6 V, 50% I _{DSS}	2-7	
03300	6.0	8.0	13.5	6.0	—	15.0	18	4 V, 20 mA	2-11	3-17
06100-100	10.0	11.0	17.0	9.0	—	20.0	8	6 V, 50% I _{DSS}	2-19	3-25
06100-200	5.0	6.0	19.5	4.5	21.5	23.5	18	6 V, 50% I _{DSS}	2-19	3-29
06300	9.5	11.0	16.5	9.0	16.0	17.5	8	4 V, 40 mA	2-23	3-33
12100	9.5	10.5	24.0	9.0	24.5	26.5	8	6 V, 50% I _{DSS}	2-31	

DC Parameters

CHIP P/N HMF-	I _{DSS} (mA)			gm (mS)	V _p (V)			PACKAGED PART CROSS-REFERENCE DATA SHEET P/N (Starts on page)
	MIN	TYP	MAX	TYP	MIN	TYP	MAX	
03000	60	80	100	35	-4.5	-3.5	-2.0	HMF-03010 (3-1); HMF-03020 (3-5)
03100-100	40	65	110	44	-3.1	-2.1	-1.0	
03100-200	60	75	100	44	-3.1	-2.1	-1.0	HMF-03110-200 (3-9); HMF-03140-200 (3-13)
03100-300	75	85	110	44	-3.1	-2.1	-1.0	
03300	20	40	60	46	-2.5	-1.3	-0.7	HMF-03340 (3-17)
06000	120	160	200	70	-4.5	-3.5	-2.0	HMF-06020 (3-21)
06100-100	80	130	180	90	-3.1	-2.1	-1.0	HMF-06110-100 (3-25)
06100-200	100	150	200	85	-3.1	-2.1	-1.0	HMF-06140-200 (3-29)
06300	40	80	120	95	-2.5	-1.3	-0.7	HMF-06310 (3-33)
12000-100	200	320	360	140	-4.5	-3.5	-2.0	
12000-200	280	340	420	140	-4.5	-3.5	-2.0	HMF-12020-200 (3-37); HMF-12030-200 (3-41)
12100	200	300	400	175	-3.1	-2.1	-1.0	
24000-100	450	600	750	270	-4.5	-3.5	-2.0	
24000-200	550	650	800	270	-4.5	-3.5	-2.0	HMF-24020-200 (3-45); HMF-24030-200 (3-49)