

# HEMT Summary - 41-2202-02

Customer	Order	Type	Run	Device	Number of Fingers	Finger Width (μm)	Total Gate Width (μm)	IDS <sub>ON</sub> /IDS <sub>OFF</sub> @ VDS=0.1V (dB)	IGS @ VDS=0.0V VGS=-1.0V (μA/mm)	Sub-Th-Slope @ VDS=0.1V (mV/dec)	gmMAX @ VDS=0.5V (mS/mm)	VGS to get IDS=80mA/mm for VDS=0.5V (V)
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1573	4	37.5	150	86.5	-4.42	80	1249	-0.011
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1574	4	37.5	150	85.6	-5.91	81	1253	-0.012
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1576	4	37.5	150	86.7	-4.33	81	1241	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ157D	4	37.5	150	86.9	-3.49	80	1258	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ157E	4	37.5	150	86.4	-3.63	81	1247	-0.010
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ157F	4	37.5	150	86.8	-3.85	80	1247	-0.010
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1580	4	37.5	150	86.6	-6.91	82	1249	-0.008
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1581	4	37.5	150	87.0	-3.62	80	1245	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1582	4	37.5	150	86.6	-3.55	81	1244	-0.010
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1585	4	37.5	150	85.1	-5.00	80	1256	-0.008
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1586	4	37.5	150	87.2	-6.10	80	1248	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1588	4	37.5	150	86.9	-4.24	80	1252	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1589	4	37.5	150	87.0	-3.45	81	1255	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ158C	4	37.5	150	86.4	-3.62	81	1250	-0.011
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ158D	4	37.5	150	86.8	-3.67	80	1256	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ158F	4	37.5	150	86.7	-3.92	81	1254	-0.010
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1590	4	37.5	150	86.8	-3.80	80	1253	-0.009
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1591	4	37.5	150	86.6	-5.84	81	1255	-0.010
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ1597	4	37.5	150	86.4	-4.52	81	1243	-0.010
Mathilda Science	41-2202-02	pH-100-4F37.5	D210406	AZ159B	4	37.5	150	86.2	-8.02	80	1250	-0.010
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4361	2	75	150	86.4	-2.28	82	1266	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4362	2	75	150	84.1	-2.39	82	1261	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4363	2	75	150	85.1	-1.84	83	1257	-0.013
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4364	2	75	150	86.2	-2.42	81	1251	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4365	2	75	150	84.6	-2.72	81	1251	-0.007
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4366	2	75	150	86.4	-3.00	81	1256	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4367	2	75	150	86.2	-2.63	81	1250	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4368	2	75	150	86.6	-2.79	80	1255	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4369	2	75	150	86.0	-2.70	81	1247	-0.011
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ436A	2	75	150	85.9	-2.97	82	1254	-0.011
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ436B	2	75	150	85.6	-2.62	82	1248	-0.012
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ436C	2	75	150	85.5	-2.59	82	1247	-0.012
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ436D	2	75	150	85.7	-2.67	82	1249	-0.011
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ436E	2	75	150	86.2	-2.66	81	1249	-0.010
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ436F	2	75	150	85.8	-2.72	82	1250	-0.011

## HEMT Summary - 41-2202-02

Customer	Order	Type	Run	Device	Number of Fingers	Finger Width (μm)	Total Gate Width (μm)	IDS <sub>ON</sub> /IDS <sub>OFF</sub> @ VDS=0.1V (dB)	IGS @ VDS=0.0V VGS=-1.0V (μA/mm)	Sub-Th-Slope @ VDS=0.1V (mV/dec)	gmMAX @ VDS=0.5V (mS/mm)	VGS to get IDS=80mA/mm for VDS=0.5V (V)
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4370	2	75	150	85.6	-2.83	82	1245	-0.012
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4371	2	75	150	85.4	-2.85	82	1241	-0.013
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4373	2	75	150	86.1	-3.18	81	1263	-0.011
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4374	2	75	150	86.4	-3.17	80	1254	-0.010
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4375	2	75	150	86.3	-3.33	81	1246	-0.011
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4376	2	75	150	86.9	-3.79	80	1245	-0.008
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4377	2	75	150	86.6	-4.33	80	1251	-0.009
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4378	2	75	150	86.0	-3.83	81	1250	-0.011
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ437D	2	75	150	85.8	-3.56	82	1261	-0.013
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ437E	2	75	150	85.4	-3.40	82	1255	-0.014
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4380	2	75	150	85.6	-3.60	81	1256	-0.014
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4381	2	75	150	86.0	-3.41	81	1255	-0.012
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4382	2	75	150	86.0	-4.13	81	1253	-0.012
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4384	2	75	150	85.8	-3.23	82	1259	-0.013
Mathilda Science	41-2202-02	pH-100-2F75	D210406	AZ4386	2	75	150	86.2	-2.10	82	1259	-0.010
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ8136	4	20	80	86.2	-2.92	81	1208	-0.007
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ8137	4	20	80	85.9	-2.96	82	1208	-0.008
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ8139	4	20	80	86.1	-3.57	81	1203	-0.007
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ813B	4	20	80	86.4	-3.43	81	1210	-0.008
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ813C	4	20	80	86.4	-3.79	81	1205	-0.007
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ813E	4	20	80	86.7	-3.84	80	1214	-0.007
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ8140	4	20	80	86.7	-4.01	81	1210	-0.006
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ8141	4	20	80	85.1	-4.87	80	1223	-0.004
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ8148	4	20	80	86.5	-2.95	81	1204	-0.007
Mathilda Science	41-2202-02	pH-100-4F20	D210406	AZ814A	4	20	80	85.4	-2.92	82	1205	-0.011