

DE Linear and Switch Mode Series

The patented DE-SERIES Fast Power™ MOSFETs are in a new class of unique high power transistors designed as a circuit element from the ground up for high speed, high frequency, high power applications at frequencies up to 100 MHz. DEI's Fast Power™ technology features low insertion inductance (≤ 1.5 nH), and a low profile package, with

$R_{(\theta_{JA})_{JHS}}$ as low as 0.17°C/W , which provides exceptional switching speeds and power handling capabilities. The DE-Series MOSFETs offer 10 times the speed and 3 times the thermal dissipation, with $1/2$ the volume, $1/3$ the weight and greatly reduced die stress, of comparable conventional power MOSFET devices.

Features

- Isolated Substrate
 - high isolation voltage (> 2500 V)
 - excellent thermal transfer
 - increased temperature and power cycling capability
- IXYS advanced low Q_g process
- Low gate charge and capacitances
 - easier to drive
 - faster switching
- Low $R_{DS(on)}$
- Very low insertion inductance (≤ 1.5 nH)

Advantages

- Optimized for RF and high speed switching at frequencies to 175 MHz
- Higher voltages - lower DC current requirements, higher load impedances, reduced system size and weight, simplifies paralleling of devices
- Easy to mount - no insulators needed
- High power density

Applications

- RF Power Amplifiers
- High Frequency SMPS
- Laser Diode Drivers
- RF Power Generators
- Induction Heating
- High Speed Pulse Generators

Linear Z-MOS

Part Number ▶ New	Configuration	B_{VDSS}	I_d A	Gain 175 MHz dB	Pout 175 MHz W	Pd W	Fig. No.	Package Style Outlines page 188 - 224
100V (operating) Linear RF MOSFETS								
IXZ210N50L	SINGLE	500	10	14	300	550	D2	D2 Weight = 2 g DE 275
IXZ2210N50L	PUSH-PULL		10X2	14	550	1080	D3	
▶ IXZ12210N50L-754	PUSH-PULL		10X2	14	550	1080	754	
IXZH10N50LA	SINGLE G-S-D		9	14	150	180	X016a	
IXZH10N50LB	SINGLE D-S-G		9	14	150	180	X016a*	
50V (operating) Linear RF MOSFETS								
IXZ215N12L	SINGLE	125	15	13	150	300	D2	D3 Weight = 4 g DE 275x2

Switch Mode Z-MOS FETs

Part Number ▶ New	Configuration	BV_{DSS}	I_b A	$R_{DS(on)}$ Ω	tr ns	Ciss pF	Coss pF	Crss	Pd	Fig.	Package Style
▶ IXZ211N50	SINGLE	500	11	0.6	4	790	78	12	540	D2	X014 Weight = 6 g TO-247 AD
▶ IXZ2211N50	PUSH-PULL		11X2	0.6		790	78	12	1030	D3	
IXZ318N50	SINGLE		19	0.325		1960	139	19	880	D4	
▶ IXZH18N50	SINGLE		19	0.325		1960	139	19	300	X014a	
▶ IXZR18N50	SINGLE		19	0.325		1960	139	19	300	X016a	
IXZR18N50A	SINGLE G-S-D	19	0.325	1960	139	19	300	X016a			
IXZR18N50B	SINGLE D-S-G	19	0.325	1960	139	19	300	X016a*			
IXZ316N60	SINGLE	600	18	0.44	4	1930	125	17.8	880	D4	X016a Weight = 5 g ISOPLUS247™
▶ IXZH16N60	SINGLE		18	0.44					300	X014a	
▶ IXZR16N60	SINGLE		18	0.44					300	X016a	
IXZR16N60A	SINGLE G-S-D		18	0.44					300	X016a	
IXZR16N60B	SINGLE D-S-G		18	0.44					300	X016a*	
IXZ308N120	SINGLE	1200	8	2.1	5	1960	59	9.2	880	D4	X016a* D/G are pin swarped IXYS
▶ IXZH08N120	SINGLE		8	2.1					300	X014a	
▶ IXZR08N120	SINGLE		8	2.1					300	X016a	
IXZR08N120A	SINGLE G-S-D		8	2.1					300	X016a	
IXZR08N120B	SINGLE D-S-G		8	2.1					300	X016a*	

The DEIC 420 ultra-fast high current driver is optimized to drive DEI DE-Series MOSFETs for high efficiency performance in RF generators, laser diode drivers, pulse generators, and high frequency power conversion applications. It is designed to switch power MOSFETs with

minimum switching times at frequencies to 45 MHz. The innovative DEIC 420 is manufactured in DEI's patented low-inductance RF package, offering superior thermal performance and high continuous operating frequencies.

Features

- Wide operating voltage range from 8 V to 30 V
- Very low output impedance
- No internal cross conduction which allows operating frequencies to 45 MHz
- Latch-up protected to rated reverse current
- Output Current - up to 20 A peak
- Very low thermal impedance
- Matched rise and fall times
- Evaluation Board available

Applications

- Class D and E RF Generators
- Laser Diode Drivers
- High Frequency Power Factor Correction
- Acoustic Transducer Drivers
- High Frequency SMPS
- Pulse Generators

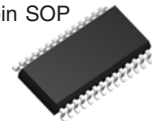
Fig. D1
DE 150



Fig. D2
DE 275



X550
28-pin SOP



MOSFET Driver ICs

Part Number ▶ New	Configu- ration	Peak I A	Zout Ω	Package	PD W	Enable Pin	Kelvin Input	Evaluation Board
DEIC420	SINGLE	20	0,6	DE275	100	NO	NO	EVIC420
▶ DEIC421	SINGLE	20	0,6	DE275-IC	100	NO	YES	
▶ DEIC515	SINGLE	15	0,6	DE150-IC	100	NO	YES	
IXDD415SI	DUAL	15	0,8	SOIC-28 w/ heat slug	12	YES	YES	EVDD415

Outline drawings
see pages 188-224

Laser Diode Driver IC

Part Number	Pulse Width	Max Freq.	Peak I A	Package	Evaluation Board
IXLD02SI	1.5nS to >1μS	17MHz	2	SOIC-28 w/heat slug	EVLDD02

GaAs Schottky Diodes

Part type	V _{RRM} V	I _f (25) A	C _{junction} Pf	V _F (I _F =24) Pf	P _{TOT} (25) W	R _{THJC} K/W	Package
GS150TA_25104	250	4Ax3	9	1,5	9	16,3	DE150
GS150TC_25104	250	4Ax3	9	1,5	9	16,3	DE150
GS150TI_25104	250	4Ax3	9	1,5	9	16,3	DE150
GS150TA_25110	250	10Ax3	18	1,5	15	9,6	DE150
GS150TC_25110	250	10Ax3	18	1,5	15	9,6	DE150
GS150TI_25110	250	10Ax3	18	1,5	15	9,6	DE150
GS150TC_25120	250	20Ax3	36	1,5	20	7,2	DE150
GS08DI25104	250	1AX2	9	1,5	1	125	SOIC8

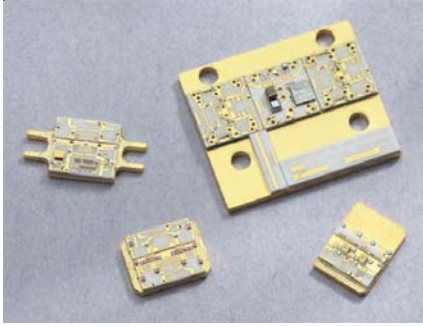
DE Series (DE Package)

Part Number	Configuration	B _{VDSS} V	ID A	R _{DS(ON)} Ω	T _{R(ON)} ns	C _{ISS} pF	C _{OSS} pF	C _{RSS} pF	PD W	Fig. No.	Package style Outline drawings on page 188 - 224
100V (max) Switch Mode MOSFETS											
DE150-101N09A	SINGLE	100	9	0.16	4	800	200	30	200	D1	D1 Weight = 2 g
DE275-101N30A	SINGLE		30	0.05	5	2500	500	100	270	D2	
200V (max) Switch Mode MOSFETS											
DE150-201N09A	SINGLE	200	15	0.2	4	700	150	20	200	D1	D2 Weight = 2 g
DE275-201N25A	SINGLE		25	0.08	5	2500	250	50	590	D2	
500V (max) Switch Mode MOSFETS											
DE150-501N04A	SINGLE	500	4.5	1.5	4	700	90	5	200	D1	D3 Weight = 4 g
DE275-501N16A	SINGLE		16	0.4	2	1800	150	40	590	D2	
DE275X2-501N16A	PUSH-PULL		16	0.38	2	1800	150	45	1180	D3	D4 Weight = 3 g
DE375-501N21A	SINGLE		25	0.22	3	2000	200	45	940	D4	
DE475-501N44A	SINGLE		44	0.11	5	5500	230	130	1800	D5	
1000V (max) Switch Mode MOSFETS											
DE150-102N02A	SINGLE	1000	2	7.8	4	500	150	3	200	D1	D5 Weight = 3 g
DE275-102N06A	SINGLE		8	1.6	2	1800	130	25	590	D2	
DE275X2-102N06A	PUSH-PULL		16	1.6	2	1800	130	25	1180	D3	X014a Weight = 6 g
DE375-102N10A	SINGLE		10	1.2	3	2900	100	25	940	D4	
DE375-102N12A	SINGLE		12	0.95	3	2000	150	30	940	D4	
DE475-102N20A	SINGLE		20	0.6	5	5600	175	50	1800	D5	
DE475-102N21A	SINGLE		24	0.41	5	5500	200	60	1800	D5	

F Series (Industry Standard Packages)

Part Number	Configuration	B _{VDSS} V	ID A	R _{DS(ON)} Ω	T _{R(ON)} ns	C _{ISS} pF	C _{OSS} pF	C _{RSS} pF	PD W	Fig. No.	Package style Outline drawings on page 188 - 224		
200V (max) Switch Mode MOSFETS													
IXFH60N20F	SINGLE	200	60	0.038	14	2930	940	320	315	X014a	X015 Weight = 5 g 		
IXFT60N20F	SINGLE	200	60	0.038	14	2930	940	320	315	X019			
500V (max) Switch Mode MOSFETS													
IXFH12N50F	SINGLE	500	12	0.4	14	1870	290	90	180	X014a	X016a Weight = 5 g 		
IXFT12N50F	SINGLE		12	0.4	14	1870	290	90	180	X019			
IXFH21N50F	SINGLE		21	0.25	12	2600	470	160	300	X014a			
IXFT21N50F	SINGLE		21	0.25	12	2600	470	160	300	X019			
IXFH28N50F	SINGLE		28	0.19	13	3000	500	130	315	X014a			
IXFT28N50F	SINGLE		28	0.19	13	3000	500	130	315	X019			
IXFK44N50F	SINGLE		44	0.12	18	5500	990	330	500	X020			
IXFX44N50F	SINGLE		44	0.12	18	5500	990	330	500	X015			
IXFK55N50F	SINGLE		55	0.085	20	6700	1250	330	560	X020			
IXFN55N50F	SINGLE		55	0.085	20	6700	1250	330	600	X027b			
IXFX55N50F	SINGLE		55	0.085	20	6700	1250	330	560	X015			
1000V (max) Switch Mode MOSFETS													
IXFH6N100F	SINGLE		1000	6	1.9	14	1870	190	60	180		X014a	X020 Weight = 10 g
IXFT6N100F	SINGLE			6	1.9	14	1870	190	60	180		X019	
IXFH12N100F	SINGLE	12		1.05	12	2700	305	93	300	X014a			
IXFR12N100F	SINGLE	12		1.05	12	2700	305	93	300	X016a			
IXFT12N100F	SINGLE	12		1.05	12	2700	305	93	300	X014a			
IXFK21N100F	SINGLE	21		0.5	16	5500	640	190	500	X020			
IXFX21N100F	SINGLE	21		0.5	16	5500	640	190	500	X015			
IXFK24N100F	SINGLE	24		0.39	18	6600	760	230	560	X020			
IXFN24N100F	SINGLE	24		0.39	18	6600	760	230	600	X020			
IXFX24N100F	SINGLE	24		0.39	18	6600	760	230	560	X015			

Hybrid Microwave Modules



- Miniature, Low Cost for Drop In Hybrid Applications
- Low Noise, High Gain, and High Power Options
- Gain Block, Temp Comp, and Regulator Options
- Low VSWR for Improved Cascade Performance
- Single Voltage Supply and Low Current Design
- Using MwT's Space-Qualified GaAs and Thin Film Substrates
- 100% Eutectic Assembly Technique Assure High Reliability
- Standard and Customer Specific Specifications
- Connectorized Amplifier Options Upon Request
- High-Rel and Space-Rel Screening Available

MwT Standard Gain Block Modules

Model	Freq Range	Linear Gain	Gain ± Flatness	VSWR : 1 In & Out	Reverse Isolation	Noise Figure	Pout @ -1 dB	IP3	Current @ +8 V	Case Code	Carrier Size
	GHz	Typ/Min dB	Typ/Max dB	Typ/Max dB	Typ dB	Typ dB	Typ/Min dBm	Typ	Typ/Max mA		mil x mil
► New											
MwT 0206-1G1	2.0-6.0	16.0 / 15.0	0.6 / 0.6	1.8 / 2.0	-30.0	4.5	17.0 / 16.0	27.0	150 / 180	U/L-1	300 • 600
MwT 0206-1G2	2.0-6.0	18.0 / 17.0	0.5 / 0.6	1.8 / 2.0	-30.0	3.5	19.0 / 18.0	29.0	150 / 200	U/L-1	300 • 600
MwT 0206-2P2	2.0-6.0	10.5 / 10.0	0.4 / 0.6	1.5 / 1.8	-20.0	4.5	24.5 / 24.0	35.0	220 / 260	S/Z-1	300 • 600
MwT 0206-7G2	2.0-6.0	11.0 / 10.5	0.4 / 0.6	1.5 / 1.8	-20.0	3.0	15.0 / 14.0	25.0	60 / 80	S/Z-1	300 • 600
MwT 0206-9P2	2.0-6.0	11.0 / 10.0	0.4 / 0.6	1.7 / 2.0	-20.0	4.0	26.0 / 25.0	37.0	260 / 290	S/Z-1	300 • 600
MwT 0206-11P2	2.0-6.0	6.0 / 5.0	0.4 / 0.6	1.7 / 2.0	-18.0	7.0	30.0 / 29.5	41.0	850 / 950	S/Z-1	300 • 600
► MwT 0206-A9G1	2.0-6.0	17.0 / 16.0	0.5 / 0.6	1.8 / 2.0	-30.0	1.5	15.0 / 14.0	25.0	50 / 55	S/Z-1	300 • 600
MwT 0618-2P1	6.0-18.0	5.0 / 4.5	0.4 / 0.6	1.5 / 1.7	-20.0	7.0	24.8 / 24.0	35.0	200 / 250	S/Z-2	250 • 500
MwT 0618-2P2	6.0-18.0	5.5 / 5.0	0.3 / 0.5	1.5 / 1.7	-20.0	7.0	25.5 / 24.5	36.0	220 / 275	S/Z-2	250 • 500
MwT 0618-3P1	6.0-18.0	6.0 / 5.0	0.4 / 0.6	1.5 / 1.7	-20.0	6.5	20.5 / 20.0	30.0	100 / 120	S/Z-2	250 • 500
MwT 0618-3P2	6.0-18.0	6.5 / 6.0	0.3 / 0.5	1.5 / 1.7	-20.0	6.5	21.5 / 21.0	31.0	100 / 120	S/Z-2	250 • 500
MwT 0618-4N1	6.0-18.0	7.5 / 7.0	0.4 / 0.6	1.5 / 1.7	-20.0	4.5	14.0 / 12.0	25.0	40 / 60	S/Z-2	250 • 500
MwT 0618-4N2	6.0-18.0	8.0 / 7.5	0.4 / 0.6	1.5 / 1.7	-20.0	4.0	14.0 / 11.0	25.0	40 / 60	S/Z-2	250 • 500
MwT 0618-H4N2	6.0-18.0	9.0 / 8.5	0.4 / 0.6	1.5 / 1.7	-20.0	3.0	10.0 / 7.0	20.0	40 / 60	S/Z-2	250 • 500
MwT 0618-5G1	6.0-18.0	10.0 / 9.5	0.4 / 0.6	1.5 / 1.7	-30.0	5.5	16.0 / 14.0	26.0	90 / 100	S/Z-2	250 • 500
MwT 0618-5G2	6.0-18.0	10.5 / 10.0	0.4 / 0.6	1.5 / 1.7	-30.0	5.0	18.0 / 15.5	28.0	100 / 120	S/Z-2	250 • 500
MwT 0618-7G2	6.0-18.0	7.5 / 7.0	0.4 / 0.6	1.5 / 1.7	-20.0	5.0	15.0 / 14.0	25.0	60 / 80	S/Z-2	250 • 500
MwT 0618-12P2	6.0-18.0	4.6 / 4.2	0.4 / 0.6	1.5 / 1.7	-20.0	7.5	27.5 / 27.0	38.0	350 / 450	S/Z-2	250 • 500
► MwT 0618-H15P2	6.0-18.0	8.5 / 7.5	0.4 / 0.6	1.5 / 1.7	-20.0	7.5	27.0 / 26.0	34.0	250 / 275	S/Z-2	250 • 500
► MwT 0618-H15P3	6.0-18.0	7.5 / 6.5	0.4 / 0.6	1.5 / 1.7	-20.0	7.5	29.0 / 28.0	36.0	250 / 300	S/Z-2	250 • 500
► MwT 0618-H16P3	6.0-18.0	5.0 / 6.0	0.8 / 1.2	1.7 / 2.0	-17.0	8.0	30.0 / 29.0	38.0	450 / 550	S/Z-2	250 • 500
► MwT 0618-H7P2	6.0-18.0	9.0 / 9.5	0.5 / 1.0	1.7 / 2.0	-17.0	5.5	21.0 / 24.0	33.0	110 / 150	S/Z-2	250 • 500
MwT 0820-3P1	8.0-20.0	5.0 / 4.5	0.4 / 0.6	1.5 / 1.7	-20.0	7.5	19.0 / 18.0	29.0	100 / 120	S/Z-2	250 • 500
MwT 0820-3P2	8.0-20.0	5.5 / 5.0	0.4 / 0.6	1.5 / 1.7	-20.0	7.0	20.0 / 19.0	29.0	100 / 120	S/Z-2	250 • 500
MwT 0820-4N1	8.0-20.0	6.0 / 5.5	0.4 / 0.6	1.5 / 1.7	-20.0	8.0	14.0 / 12.0	25.0	40 / 60	S/Z-2	250 • 500
MwT 0820-4N2	8.0-20.0	6.5 / 6.0	0.4 / 0.6	1.5 / 1.7	-20.0	4.0	14.0 / 11.0	25.0	40 / 60	S/Z-2	250 • 500
MwT 0820-5G1	8.0-20.0	9.0 / 8.0	0.4 / 0.6	1.5 / 1.7	-28.0	4.0	16.0 / 14.0	26.0	90 / 110	S/Z-2	250 • 500
MwT 0218-4N1	2.0-18.0	6.0 / 5.0	0.8	1.7 / 2.0	-20.0	7.0	15.0 / 14.0	25.0	100 / 120	S/Z-2	250 • 500
MwT 0218-4N2	2.0-18.0	6.5 / 6.0	1.2	1.7 / 2.0	-20.0	8.5	17.0 / 16.0	26.0	160 / 180	S/Z-2	250 • 500
MwT 0218-H4N1	2.0-18.0	12.0 / 11.0	0.8	1.7 / 2.0	-20.0	4.0	6.0 / 5.0	15.0	40 / 50	S/Z-2	250 • 500
► MwT 0218-H4N2	2.0-18.0	11.0 / 10.0	0.8	1.7 / 2.0	-20.0	4.0	12.0 / 11.0	24.0	60 / 75	S/Z-2	250 • 500

Note: Typical 2nd Harmonics @ P-I -21.0 dBc Typ

MwT Standard Temperature Compensation Modules

Model	Freq Range	Insertion Loss	Loss Flatness	Atten.	Current @ +8 V	Case Code	Carrier Size
	GHz	Typ/Max dB	± Max dB	Typ / Min dB	Max mA		milxmil
MwT 0206-TCM	2.0-6.0	1.0 / 2.5	0.4 / 0.6	13.0 / 12.0	10 / 20	S/Z-1	300 • 600
MwT 0618-TCM	6.0-18.0	2.5 / 3.0	0.4 / 0.6	13.0 / 12.0	10 / 20	S/Z-2	250 • 500

MwT Standard Voltage Regulator Modules (Each Module Contains Dual Adjustable Voltage Regulators)

Model	Freq Range	Insertion Loss	Ripple Rej @ 120Hz	Pw Diss Per VR	Regulated Voltage	Supply Voltage	Total Sup. Current	Case Code	Carrier Size
	GHz	Typ/Max dB	Min dB	Max Watts	Min / Max V	Typ / Max V	Max mA		milxmil
MwT 0206-VRM	2.0-6.0	- / 0.5	50.0	1.5	7.9 / 8.1	12.0 / 20.0	800	U/L-1	300 • 600
MwT 0618-VRM	6.0-18.0	- / 1.0	50.0	1.5	7.9 / 8.1	12.0 / 20.0	800	U/L-2	250 • 500

Standard Amplifier Selection Guide



Model Number WideBand Amplifier Type	Freq Range GHz	Linear Gain dB MIN/TYP	Gain Flatness ±dB MAX	Noise Figure dB MAX/TYP	Pout-1dB dBm MIN/TYP	Current @12 V mA MAX	Case Code
AW052202N	0.5-2	30/33	1-4	2.5/2.2	15/17	300	SL-2
AW052203	0.5-2	23/26	1.0	3.0/2.5	17/19	260	SL-2
AW054201N	0.5-4	19/26	1.0	2.5/2.2	15/17	220	SL-2
AW054203	0.5-4	21/24	1.0	4.5/4.0	16/18	260	SL-2
AW12201N	1-2	28/31	1-1	2.5/2.2	18/20	225	SL-2
AW12203	1-2	27/30	1-1	3.5/3.0	27/28	555	SL-2
AW26201N	2-6	21/23	1.0	2.5/2.2	13/15	155	SL-2
AW26204	2-6	19/21	1.0	4.5/4.0	23/24	335	SL-2
AW28201N	2-8	29/32	1-5	3.0/2.5	13/15	175	SL-2
AW28302	2-8	31/33	1-5	5.5/5.0	23/24	615	SL-3
AW612301N	6-12	30/32	1.0	3.5/3.0	16/17	240	SH-3
AW612304	6-12	22/23	1.0	6.5/6.0	27/28	750	SH-4
AW1218301N	12-18	24/26	0.8	3.5/3.0	14/15	230	SH-3
AW1218504	12-18	29/31	1-3	7.5/7.0	27/28	1200	SH-6
AW818301N	8-18	24/26	1.0	3.5/3.0	14/15	230	SH-3
AW818504	8-18	29/32	1-5	7.5/7.0	27/28	1300	SH-6
AW618301N	6-18	24/26	1-3	3.5/3.0	14/15	230	SH-3
AW618302	6-18	19/21	1-3	6.0/5.5	20/21	350	SH-3
AW618404	6-18	20/22	1-5	7.5/7.0	27/28	1200	SH-5
AW218201N	2-18	25/28	1-8	5.0/4.5	6/7	135	SH-2
AW218301N	2-18	24/26	2.0	6.5/6.0	15/16	365	SH-3
AW218301	2-18	20/22	2.0	6.0/5.5	20/21	500	SH-3
Model Number Temp Comp Amplifier Type	Freq Range GHz	Linear Gain dB MIN/TYP	Gain Flatness ±dB MAX	Noise Figure dB MAX/TYP	Gain vs Temp ±dB MAX	Current @12 V mA MAX	Case Code
AT26301	2-6	21/23	1.0	6.0/5.5	0.8	300	SL-3
AT26401	2-6	36/40	1.5	5.5/5.0	1.0	470	SL-4
AT618401	6-18	22/24	1.0	7.5/7.0	0.8	380	SH-4
AT618501	6-18	31/33	1.3	7.0/6.5	0.8	500	SH-5
Model Number Limiting Amplifier Type	Freq Range GHz	Pin Dynamic dBm MIN/MAX	Noise Power dBm MAX	Pout-sat dBm MIN/MAX	Pout Flatness ±dB MAX	Current @12 V mA MAX	Case Code
AL26501	2-6	-50/10	7.0	+15/+20	1.0	500	SL-5
AL618801	6-18	-50/10	10.0	+15/+20	2.0	800	LH-44
Model Number Low Noise Amplifier Type	Freq Range GHz	Linear Gain dB MIN	Gain Flatness ±dB MAX	Noise Figure dB MAX/TYP	Pout-1dB dBm MIN/TYP	Current @12 V mA MAX	Case Code
AN12201N	1.2-1.8	28/31	0.5	1-7	15/17	180	CL-1
AN23201N	2.2-2.9	28/31	0.5	1-7	15/17	180	CL-1
AN45201N	4.4-5.0	25/27	0.5	1-7	15/17	180	CL-1
AN78201N	7.2-7.8	23/25	0.5	1-8	14/16	150	CH-1
AN910201N	9.0-10.0	21/23	0.5	1-8	14/16	150	CH-1
AN1415301N	14.5-15.3	24/27	0.5	2-1	13/15	200	CH-3
AN1718401N	17.7-18.7	29/32	1.0	2-8	12/14	250	CH-3
Model Number Med Power Amplifier Type	Freq Range GHz	Linear Gain dB MIN	Gain Flatness ±dB MAX	VSWR In/Out MAX	Pout-1dB dBm MIN/TYP	Current @12 V mA MAX	Case Code
AP45401	4.4-5.0	35.0	0.6	1.5/1.5	30.0/30.5	1400	CL-3
AP67402	5.9-6.4	33.0	0.6	1.5/1.5	33.0/33.5	2700	CL-3
AP78401	7.2-8.4	33.0	0.8	1.5/1.5	30.0/30.5	1450	CH-3
AP910401	9.0-10.0	32.0	0.8	1.5/1.5	30.0/30.5	1450	CH-3
AP1011401	10.7-11.7	27.0	0.8	1.5/1.5	30.0/30.5	1550	CH-3
AP1415401	14.0-14.5	23.0	0.5	1.5/1.5	29.0/30.0	1700	CH-3
AP1718501	17.7-18.7	24.0	1.0	1.8/1.8	26.0/27.0	1250	CH-5
Model Number Telecom Power Amplifier Type	Freq Range GHz	Linear Gain dB MIN	Gain Flatness ±dB MAX	IMD3 (dBc) @ Po dBm/Tone	Pout-1dB dBm MIN/TYP	Current @12 V mA MAX	Case Code
AP1819701	18.1-18.6	30	0.5	-50@+15	27	2300	PH-01
AP1819801	18.1-18.6	35	0.5	-54@+15	29	2700	PH-01

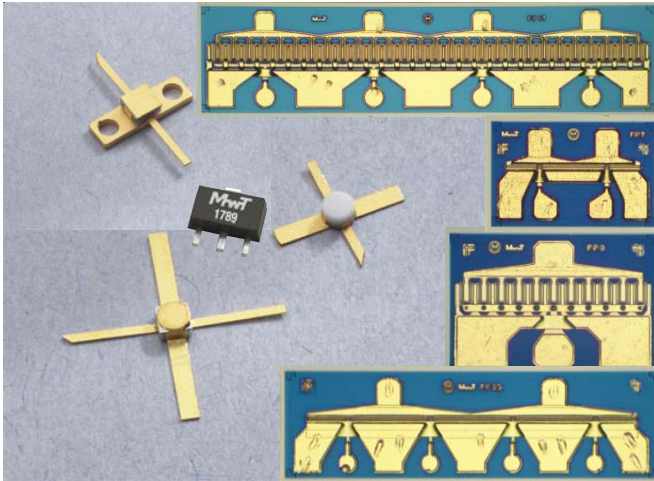
Contact factory for application assistance on custom and standard amplifiers. High-Rel and Space-Rel screening available.

- Ultra Linear, High Dynamic Range, Low Phase Noise
- GaAs Process is Approved for Space Applications with Proven Reliability
- Commercial, Industrial, Military, and Space Grades
- 100% Wafer Bond Pull, Die Shear, Wafer DC Burn In, and Bake Tests in Evaluation per mil-PRF 385 & 4
- 100% Die Probe Test with Data Recorded for Shipment
- 100% Visual (Perform Level 1, 3, or 4) before Shipment
- 100% Idss Match to Provide Performance Consistency
- RF Sample Test Capability Available Upon Request
- Meet Standard or Customer Specific Specifications
- High-Rel and Space-Rel Screening Options Available
- RoH5 (lead-free) compliant product available

MwT Standard GaAs FETs / PHEMTs RF Properties (DC Properties Listed on 2nd Page)

Model	Package Available Sealed / Hermetic	Gate Width / Length um	Gate Layout Method	Gate Drain Source Bond Pads Qty	Chip Thickness & VIA mil, y/n	S.S. Gain @12GHz Typ/Min dB	N. F. @12GHz Typ/Max dB	Ga @ N.F. @12GHz Typ/Min dB	P-1dB @ 12GHz Typ/Min dBm	IP3 @ 12GHz Typ dBm	Nominal Chip Size um • um	Ideal Circuit
► New												
MwT-1	70, 73 / 71	630/0.3	single stripe	1, 1, 2	5, no	10.0 / 9.0	2.0 / -	7.0 / -	24.0/23.0	-	775 • 241	FB Amp
MwT-2	70, 73 / 71	630/0.3	single stripe	2, 2, 3	5, no	8.5 / 8.0	- / -	- / -	24.5/23.0	-	775 • 241	BA Amp
MwT-3	70, 73 / 71	300/0.3	single stripe	1, 1, 2	5, no	11.0 / 10.0	- / -	- / -	21.0/20.0	-	406 • 241	BA Amp
MwT-4	70, 73 / NA	180/0.3	single stripe	1, 1, 2	5, no	9.0 / 8.0	1.5 / 1.8	9.0 / 8.0	14.0/13.0	-	356 • 241	Osc & Amp
MwT-5	NA / NA	2*300/0.3	dual gate	3, 1, 2	5, no	13.0 / 12.0	3.5 / -	11.0 / -	19.0/15.0	-	406 • 241	Buffer Amp
MwT-6	- / 71	900/0.3	Interdigit	2, 2, 3	5, no	8.0 / 7.5	- / -	- / -	27.0/26.0	-	559 • 292	FB/DA Amp
MwT-7	70, 73 / NA	250/0.3	single stripe	2, 2, 2	5, no	10.5 / 10.0	2.0 / -	8.0 / -	20.0/18.0	-	356 • 241	BA/SE Amp
► MwT-8	71.0	2400/0.3	Interdigit	2, 2, 3	4, no	7.5 / 7.0	-	-	28.0 / 27.0	-	673 • 305	Power Amp
MwT-9	70, 73 / 71	750/0.3	Interdigit	1, 1, 2	5, no	9.0 / 8.0	- / -	- / -	26.0/25.0	-	419 • 292	FB Amp
► MwT-11	71.0	2400/0.3	Interdigit	2, 2, 3	4, no	9.0 / 7.0	-	-	30.0 / 28.0	-	775 • 343	Power Amp
MwT-15	- / -	630/0.3	single stripe	4, 2, 5	5, no	9.5 / 8.5	- / -	- / -	25.0/23.0	-	775 • 241	Amplifier
MwT-16	- / -	900/0.3	single stripe	6, 2, 7	5, no	8.5 / 7.5	- / -	- / -	27.0/26.0	-	1067 • 241	BA Amp
MwT-17	89 / 71	2400/0.8	Interdigit	4, 4, 5	5, no	7.0 / 6.0	0.8@0.9GHz	-	29.5/28.5	45/-	1130 • 279	BA/FB Amp
► MwT-1789HL	sot89	2400/0.8	Interdigit	4, 4, 5	4, no			14.0**	28.0	46	1130 • 279	High Linearity
► MwT-1789LN*	sot89	2400/0.8	Interdigit	4, 4, 5	4, no			16.0**	28.0	46	1130 • 279	Low Noise
► MwT-17QFN	QFN	2400/0.8	Interdigit	4, 4, 5	4, no	18.0/16.0**	1.5**	-	28.0/27.0	46	1130 • 279	Power Amp
► MwT-22	71.0	4800/0.5	Interdigit	6, 6, 7	4, no	12.0 / 9.0	-	-	33.0/31.0	48	1651 • 508	Power Amp
► MwT-22QFN	QFN	4800/0.5	Interdigit	6, 6, 7	4, no	13.5/12.0***	-	-	33.0/32.0	48	1651 • 508	Power Amp
► MwT-24	-	12000/0.5	Interdigit	5, 5, 6	4, no	11.0 / -	-	-	36.0/NA	48	2311 • 508	Power Amp
► MwT-25	-	14400/0.5	Interdigit	6, 6, 7	4, no	10.0 / 9.0	-	-	37.5/36.0	48	2757 • 508	Power Amp
MwT-A9	84, 70, 73 / 71	750/0.3	single stripe	1, 1, 2	5, no	9.5 / 8.5	1.8 / -	6.5 / 6.0	25.5/23.0	-	419 • 292	FB Amp
► MwT-A989SB	sot89	750/0.5	Interdigit	1, 1, 2	4, no	17.0/15.0**	0.9**	-	25.0/23.0	40	419 • 292	Power Amp
► MwT-H7	70, 73 / -	250/0.3	single stripe	2, 2, 2	5, no	12.0 / 11.0	2.0 / -	10.0 / -	21.5/20.0	-	356 • 241	BA Amp
► MwT-LP7	70, 73 / NA	250/0.3	single stripe	2, 2, 2	5, no	10.5 / 10.0	2.0 / -	8.0 / -	20.0/18.0	-	356 • 241	Oscillator
► MwT-PH15	70, 73 / 71	630/0.3	single stripe	3, 2, 5	4, no	12.0 / 10.0	-	-	28.5/27.0	-	775 • 241	Medium pow
► MwT-PH16	71	900/0.3	single stripe	6, 2, 7	4, no	11.5 / 10.0	-	-	30.0/28.5	-	1067 • 241	Medium pow
► MwT-PH7	70, 73 / 71	250/0.3	single stripe	2, 1, 2	4, no	13.5 / 12.0	-	-	24.0/22.0	-	356 • 241	Medium pow
► MwT-PH8	71	1200/0.3	Interdigit	2, 2, 3	4, no	10.0 / 9.0	-	-	30.0/29.0	-	673 • 305	Medium pow

* noise figure = 1.3dB @2.0GHz



MwT Standard GaAs FETs / PHEMTs RF Properties (RF Properties Listed on First Page)

Model	Device Type	I _{dss} Range Min/Max	I _{dss} Range in Each Container	G _m Tested at V _{ds} /V _{gs}	G _m Typ/Min	V _p Tested at V _{ds} /I _{ds}	V _p Typ/Max	B _{vgso} Tested I _{gs}	B _{vgso} Typ/Min	B _{vgdo} Tested at I _{gd}	B _{vgdo} Typ/Min	V _{ds} Absolute Max	Chip R _{th} Typ
> New		mA	mA	V/V	mS	V/mA	(- V)	(- mA)	(- V)	(- mA)	V/V	V	OC/W
MwT-1	MESFET	60 / 240	10	4.0 / 0.0	120 / 90	3.0 / 4.0	2.0 / 5.0	1.0	10.0 / 5.0	1.0	10.0 / 6.0	6.0	80
MwT-2	MESFET	60 / 240	10	4.0 / 0.0	100 / 75	3.0 / 4.0	2.0 / 5.0	0.4	12.0 / 6.0	0.4	12.0 / 8.0	7.0	80
MwT-3	MESFET	30 / 120	5	4.0 / 0.0	55 / 35	3.0 / 2.0	2.0 / 5.0	0.2	12.0 / 6.0	0.2	12.0 / 8.0	7.0	150
MwT-4	MESFET	18 / 66	3	3.0 / 0.0	35 / 27	3.0 / 1.0	1.5 / 4.0	0.2	8.0 / 5.0	0.2	8.0 / 6.0	6.0	250
MwT-5	MESFET	30 / 110	5	2.0 / 0.0	40 / 23	3.0 / 0.0	2.0 / 4.5	0.4	8.0 / 5.0	0.4	10.0 / 7.0	6.5	150
MwT-6	MESFET	90 / 360	15	2.0 / 0.0	145 / 108	3.0 / 6.0	2.0 / 5.0	0.6	12.0 / 6.0	0.6	12.0 / 8.0	7.0	60
MwT-7	MESFET	26 / 98	4	3.0 / 0.0	45 / 36	3.0 / 1.0	1.5 / 4.5	0.4	8.0 / 5.0	0.4	8.0 / 6.0	6.0	180
> MwT-8	MESFET	120 / 480	20	2.5 / 0.0	160 / 144	3.0 / 5.0	2.0 / 5.0	1.2	12.0 / 8.0	1.2	12.0 / 8.0	7.5	45
MwT-9	MESFET	78 / 282	12	2.0 / 0.0	120 / 95	3.0 / 5.0	2.0 / 5.0	0.5	12.0 / 6.0	0.5	12.0 / 6.0	7.0	70
> MwT-11	MESFET	240 / 920	40	2.5 / 0.0	380 / 290	3.0 / 16.0	2.0 / 5.0	2.4	12.0 / 8.0	2.4	12.0 / 8.0	8.0	28
MwT-15	MESFET	60 / 240	10	4.0 / 0.0	100 / 75	3.0 / 4.0	2.0 / 5.0	0.4	12.0 / 6.0	0.4	12.0 / 8.0	7.0	80
MwT-16	MESFET	90 / 360	15	2.0 / 0.0	130 / 108	3.0 / 6.0	2.0 / 5.0	0.6	12.0 / 6.0	0.6	12.0 / 8.0	7.0	55
MwT-17	MESFET	240 / 920	40	2.0 / 0.0	380 / 290	3.0 / 6.0	2.5 / 5.0	1.6	12.0 / 6.0	1.6	12.0 / 8.0	7.0	33
> MwT-1789HL	MESFET	440 / 680	-	2.5 / 0.0	380	3.0 / 16.0	2.0 / 5.0	2.4	12.0 / 6.0	2.4	12.0 / 9.0	8.0	35
> MwT-1789LN*	MESFET	440 / 680	-	2.5 / 0.0	380	3.0 / 16.0	2.0 / 5.0	2.4	12.0 / 6.0	2.4	12.0 / 9.0	8.0	35
> MwT-17QFN	MESFET	440 / 680	NA	2.5 / 0.0	380	3.0 / 16.0	2.0 / 5.0	2.4	12.0 / 6.0	2.4	12.0 / 9.0	8.0	35
> MwT-22	MESFET	800 / 1200	100	2.5 / 0.0	650 / 500	3.0 / 30.0	2.0 / 5.0	5.0	12.0 / 8.0	0.5	14.0 / 12.0	9.0	12
> MwT-22QFN	MESFET	800 / 1200	NA	2.5 / 0.0	650	3.0 / 30.5	2.0 / 5.0	5.0	12.0 / 8.0	5.0	14.0 / 12.0	9.0	12
> MwT-24	MESFET	1800 / 2400	200	2.5 / 0.0	1200 / 1000	3.0 / 120.0	2.0 / 5.0	12.0	12.0 / 8.0	12.0	16.0 / 14.0	12.0	7
> MwT-25	MESFET	2000 / 2600	200	2.5 / 0.0	1500 / 1000	3.0 / 150.0	2.0 / 5.0	14.0	12.0 / 8.0	14.0	16.0 / 14.0	12.0	6
MwT-A9	MESFET	78 / 282	12	2.0 / 0.0	120 / 95	3.0 / 5.0	2.0 / 5.0	1.0	10.0 / 5.0	1.0	10.0 / 6.0	6.0	70
> MwT-A989SB	MESFET	100 / 200	NA	2.5 / 0.0	90 / 120	3.0 / 5.0	2.0 / 5.0	1.0	12.0 / 6.0	1.0	12.0 / 6.0	8.0	75
> MwT-H7	PHEMT	34 / 106	4	3.0 / 0.0	75 / 50	3.0 / 1.0	1.5 / 5.0	0.4	8.0 / 5.0	0.4	8.0 / 6.0	6.0	180
> MwT-LP7	MESFET	38 / 98	4	3.0 / 0.0	45 / 36	3.0 / 1.0	1.5 / 4.5	0.4	8.0 / 5.0	0.4	8.0 / 6.0	6.0	180
> MwT-PH15	PHEMT	120 / 240	10	2.5 / 0.0	200 / 130	3.0 / 2.0	1.2 / 2.5	1.0	12.0 / 6.0	1.0	13.0 / 10.0	8.0	65
> MwT-PH16	PHEMT	150 / 360	15	2.5 / 0.0	280 / 180	3.0 / 3.0	1.2 / 2.5	1.0	12.0 / 6.0	1.0	13.0 / 10.0	8.0	45
> MwT-PH7	PHEMT	50 / 122	4	2.5 / 0.0	80 / 50	3.0 / 1.0	1.2 / 2.5	0.4	12.0 / 6.0	0.4	12.0 / 8.0	7.0	150
> MwT-PH8	PHEMT	240 / 600	20	2.5 / 0.0	320 / 240	3.0 / 8.0	1.2 / 2.5	1.2	12.0 / 6.0	1.2	13.0 / 10.0	8.0	40

Wireless Amplifiers (MPS, ULA and WPS WiMax)



- Miniature, Low Cost, SMT, Flange, & Leadless Options
- Miniature, High Reliability, Hermetic SMT Options
- Low Noise, High Linearity, and Broad Band Options
- Suitable for High Dynamic Range LNA and Receiver
- Suitable for High Linear Driver Amp Gain Stages
- Low VSWR for Improved Cascade Performance
- Single Voltage Supply and Low Current Design
- Uses MwT's Space-Qualified GaAs Devices
- Most Parts are Eutectic Assembly for High Reliability
- Standard and Customer Specific Specifications
- High-Rel and Space-Rel Screening Available (class H, K, and s)

MwT Standard High Linearity Driver Amplifiers

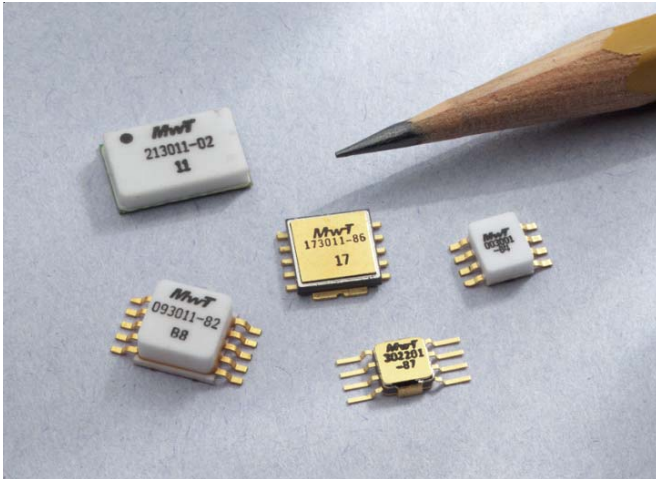
Model (Case Code - XX)	Case Code (- XX) Sealed SMT, Flange Leadless	Case Code (- XX) Hermetic SMT	Freq Range MHz	Linear Gain Typ/Min dB	Gain ± Flatness Typ/Max dB	VSWR: 1 Input Typ dB	VSWR: 1 Output Typ dB	Noise Figure Typ/Max dB	Pout @ -1 dB Typ/Min dBm	IP3 Typ/Min dBm	DC Voltage Applied V	DC Current Typ/Max mA
► New												
MPS 0810A9D-XX	82, -	96	800-960	14.0/13.0	0.20/0.30	1.4	1.2	5.0 / -	26.0/25.0	42.0 / 41.0	7.5	220 / 280
MPS 093011-XX	82, 85	96	800-1000	16.0/14.0	0.25/0.50	1.5	2.2	6.0 / -	30.0/-	45.0 / 43.0	7.5	380 / 450
► ULA 818-XX	82, -	-	800-1000	15.5/14.0	0.25/0.50	1.5	1.5	-	28.0/-	48.0 / 46.0	8.0	270 / 350
MPS 173011-XX	82, 85	96	1400-1700	14.0/13.0	0.25/0.50	1.5	2.2	6.0 / -	30.0/-	45.0 / 42.0	7.5	380 / 450
MPS 213011-XX	82, 85, 02	96	1700-2100	14.0/13.0	0.25/0.50	1.5	2.2	6.0 / -	29.0/-	45.0 / 42.0	7.5	380 / 450
► ULA 808-XX	82, -	-	1800-2100	14.0/13.0	0.25/0.50	2.0	2.0	-	28.0/-	48.0 / 46.0	8.0	270 / 350
MPS 172208-XX	82, 85	-	1900-2000	13.0/12.0	0.20/0.50	2.0	2.0	5.0 / -	26.0/25.0	38.0 / -	7.5	380 / 450
MPS 1820A9D-XX	82, -, 02	-	1800-2000	14.0/13.0	0.20/0.30	1.4	1.2	5.0 / -	26.0/25.0	42.0 / 41.0	7.5	220 / 280
► MPS 182217-XX	82, -, 02	-	1800-2200	14.0/13.0	0.25/0.50	1.5	3.0	6.0 / -	28.5/-	45.0 / 42.0	7.5	380 / 450
MPS 2125A9D-XX	82, -, 02	-	2100-2500	14.0/13.0	0.20/0.50	1.4	1.2	5.0 / -	26.0/25.0	42.0 / 41.0	7.5	220 / 280
MPS 242520-XX	-, 83	-	2400-2500	13.0/12.0	0.30/0.50	3.0	2.0	-	36.0/35.0	52.0 / -	8.0	750 / 900
MPS 252730-XX	-, 83	-	2500-2700	13.0/12.0	0.40/0.60	3.0	2.0	-	36.0/35.0	52.0 / -	8.0	750 / 900
MPS 253011-XX	82, 85	96	2400-2700	13.0/12.0	0.25/0.50	1.5	2.2	6.0 / -	29.0/-	45.0 / 42.0	7.5	380 / 450
MPS 3435A9D-XX	82, -	-	3400-3500	13.0/12.0	0.20/0.30	1.4	1.3	6.0 / -	24.0/23.0	41.0 / 39.0	7.5	220 / 280
MPS 343517-XX	82, -	-	3400-3500	13.0/12.0	0.25/0.50	2.0	2.2	6.0 / -	29.0/-	45.0 / 42.0	7.5	380 / 450
► MPS-0810A9-02	02	-	800-960	15.0/14.0	0.20/0.80	1.5	2	1.1/1.5	20.5/-	34.0/-	6.0	160-240
► MPS-081017-02	02	-	800-1000	15.0/14.0	0.20/0.50	2.0	2.5	-	28.5/-	45.0/42.0	7.5	380-450
► MPS-0820A9D-02	02	-	800-2050	13.5/12.5	0.20/0.50	1.4	1.4	5.5 / -	24.0/-	43.0/-	6.0	220-280
► MPS-1720A9-02	02	-	800-960	14.0/13.0	0.20/0.50	2.1	1.5	1.1/1.5	20.0/-	33.0/-	6.0	100-140
► MPS-182117-02	02	-	1800-2100	14.0/13.0	0.25/0.50	2.0	2.5	1.1 / -	28.5/-	45.0/42.0	7.5	380-450
► MPS-242717-02	02	-	2400-2700	13.0/12.0	0.30/0.50	2.0	2.0	-	28.0/-	45.0/42.0	6.0-7.0	380-450
► MPS-343717-02	02	-	3400-3700	12.5/11.7	0.25/0.50	1.5	2.5	-	28.5/-	45.0/42.0	6.0-7.0	330-400
► MPS-081017P-02	02	-	800-960	14.0/13.0	0.20/0.50	2.0	2.0	1.3/1.7	26.0/-	44.0/-	6.0-7.0	330-400
► MPS-081017N-02	02	-	800-960	13.5/12.0	0.20/0.50	2.0	2.0	1.0/1.3	21.0/-	36.0/-	6.0-7.0	180-250
► MPS-343717-82	82	-	3400-3700	12.5/11.7	0.25/0.50	1.5	2.5	-	28.5/-	45.0/42.0	6.7	380-450
► MPS-343617-82	82	-	3400-3600	13.0/12.0	0.25/0.50	2.0	2.2	-	29.0/-	48.0/44.0	7.5	350-420
► MPS-363817-82	82	-	3600-3800	13.0/12.0	0.25/0.50	2.0	2.2	-	29.0/-	48.0/44.0	7.5	350-420

MwT Standard Low Noise Receiver Amplifiers

Model (Case Code - XX)	Case Code (- XX) Sealed SMT, Flange Leadless	Freq Range MHz	Linear Gain Typ/Min dB	Gain ± Flatness Typ/Max dB	VSWR: 1 Input Typ dB	VSWR: 1 Output Typ dB	Noise Figure Typ/Max dB	Pout @ -1 dB Typ dBm	IP3 Typ/Min dBm	DC Voltage Applied V	DC Current Typ/Max mA
MPS 080817P-XX	82, 85, 02	806-849	14.0/13.0	0.20/0.50	2.0	2.0	1.1 / 1.5	28.0	44.0 / 42.0	7.5	330 / 400
MPS 080817N-XX	82, 85, 02	806-849	13.5/12.0	0.20/0.50	2.0	2.0	0.8 / 1.0	23.0	36.0 / 33.0	7.5	180 / 250
MPS 0808A9-XX	-, 85	806-849	16.0/14.0	0.20/0.50	2.0	2.0	1.1 / 1.5	22.0	36.0 / 33.0	6.0	180 / 250
MPS 080917P-XX	NA, 85, 02	870-925	14.5/13.0	0.20/0.50	2.0	2.0	1.1 / 1.5	28.0	44.0 / 42.0	7.5	330 / 400
MPS 080917N-XX	82, 85, 02	870-925	13.5/12.0	0.20/0.50	2.0	2.0	0.8 / 1.0	23.0	36.0 / 33.0	7.5	180 / 250
MPS 0809A9-XX	82, 85	870-925	16.0/14.0	0.20/0.50	2.0	2.0	1.1 / 1.5	22.0	36.0 / 33.0	6.0	180 / 250
MPS 090917P-XX	82, 85, 02	925-960	14.5/13.0	0.20/0.50	2.0	2.0	1.1 / 1.5	28.0	44.0 / 42.0	7.5	330 / 400
MPS 090917N-XX	-, 85, 02	925-960	13.5/12.0	0.20/0.30	2.0	2.0	0.8 / 1.0	23.0	36.0 / 33.0	7.5	180 / 250
MPS 0909A9-XX	82, 85	925-960	16.0/14.0	0.20/0.50	2.0	2.0	1.1 / 1.5	22.0	36.0 / 33.0	6.0	180 / 250
MPS 1718A9-XX	82, 85	1710-1785	15.5/14.0	0.20/0.50	2.0	2.0	1.1 / 1.5	22.0	36.0 / 33.0	6.0	100 / 150
MPS 1820A9-XX	82, 85	1850-1910	15.5/14.0	0.20/0.50	2.0	2.0	1.1 / 1.5	22.0	36.0 / 33.0	6.0	100 / 137

Note: Contact factory for hermetic package and low cost surface mount package.

Wireless Amplifiers (MPS, ULA and WPS WiMax)



MwT Standard Broad Band General Purpose Amplifiers

Model (Case Code - ► New	Case Code (- XX) Sealed SMT, Flange Leadless	Case Code (- XX) Hermetic SMT	Freq Range MHz	Linear Gain Typ/Min dB	Gain ± Flatness Typ/Max dB	VSWR: Input Typ dB	VSWR: 1 Output Typ dB	Noise Figure Typ/Max dB	Pout @ -1 dB Typ/Min dBm	PAE @ -1 dB Typ %	IP3 Typ/Min dBm	DC Voltage Applied V	DC Current Typ/Max mA
MPS 003001-XX	84, -	87	20-3000	11.5/10.5	0.80/1.20	1.6	1.6	4.0* / -	21.0 / 19.0	30*	34.0/-	5.0	90 / 160
MPS 302201-XX	-	87	100-3000	11.5/10.5	0.50/0.80	1.6	1.6	3.5*/5.0*	22.0 / 20.5	30	35.0/-	5.0	90 / 160
MPS 013001-XX	84, -	-	100-3000	11.5/10.5	0.80/1.20	1.6	1.6	3.5*/5.0*	21.0 / 19.0	30	34.0/-	5.0	90 / 160
MPS 082508-XX	82, 85	96	800-2500	13.0/11.0	0.50/1.00	2.0	2.0	5.0 / -	27.0 / 26.0	25	38.0/36.0	12.0	200 / 300
MPS 082509-XX	82, 85	96	800-2500	12.0/10.0	0.50/1.00	2.0	2.0	5.0 / -	25.5 / 23.0	25	36.0/-	10.0	135 / 200
► MPS-0425A9D-82	82	96	400-2500	14.0/13.0	0.50/0.80	1.4	1.2	-	25.0 / 24.0	-	42.0/40.0	7.5	220 / 280
► MPS-032701A-82	82	96	300-2700	20.0	1.0/-	2.0	2	5.0 / -	20.0 / 19.0	-	34.0/-	5.0	320-360

WPS - WiMax Amplifiers

Model #	Case Code Sealed	Case Code Hermetic	Freq Range	Linear Gain	Gain +/- Flatness	VSWR In	VSWR Out	P1dB	IP3	DC Voltage	DC Current
WPS-252717-XX	82	-	2500-2700	13.0/-	0.30/0.60	1.5	2.5	28.5	45	7.5	300
WPS-252724-XX	02,99	-	2500-2700	14.0/-	0.30/0.60	1.5	2.5	36.0	50	8.5	1200
MPS-343717-XX	82	-	3400-3700	13.0/-	0.30/0.60	1.5	2.5	29.0	45	7.5	380-450
MPS-343617-XX	82	-	3400-3600	13.0/-	0.30/0.60	1.5	2.5	29.0	48	7.5	380-450
MPS-363817-XX	82	-	3600-3800	13.0/-	0.30/0.60	1.5	2.5	29.0	48	7.5	380-450
WPS-343722-XX	02	-	3400-3700	13.0/-	0.30/0.60	1.5	2.5	32.0	47	8.0	600
WPS-343724-XX	02,99	-	3400-3700	14.0/-	0.30/0.60	1.5	2.5	36.0	50	8.0	1200
WPS-495917-XX	02	-	4900-5900	13.0/-	0.30/0.60	1.5	2.5	28.5	44	7.5	300
WPS-495922-XX	02	-	4900-5900	11.0/-	0.30/0.60	1.5	2.5	32.0	47	7.5	600