



Certificate No. 152
ISO 9001: 2000

Wireless Amplifiers

Features:

- Miniature, Low Cost, SMT, Flange, & Leadless Options
- Miniature, High Reliability, Hermetic SMT Options
- Low Noise, High Linearity, and Broadband Options
- Suitable for High Dynamic Range LNA Applications
- Suitable for High Linear Driver Amp Gain Stages
- Low VSWR for Improved Cascade Performance
- Single Voltage Supply and Low Current Operation
- Uses MWT's Hi-Rel and Space-Qualified GaAs Devices
- Most Parts are Eutectic Assembly for High Reliability
- Standard and Custom Amplifier Specifications
- High-Rel and Space-Rel Screening Available

(class H, K, and S)



Part Number	Freq Range (MHz)	Linear Gain Typ/Min (dB)	Gain Flatness Typ/Max (±dB)	VSWR Input Typ/Max (dB)	VSWR Output Typ/Max (dB)	Noise Figure Typ/Max (dB)	Pout@ -1dB Typ (dBm)	IP3 Typ/Min (dBm)	DC Voltage Applied (V)	DC Current Typ/Max (mA)	Status
<u>MPS-002701-84</u>	00-2700	11.5/10.5	0.5/0.8	2.0/-	1.8/-	6.0/-	20.0/19.0	35.0/-	5.0	120/160	Active Part
<u>MPS-013001-84</u>	100-3000	11.5/10.5	0.80/1.20	1.6/2.5	1.6/2.5	3.5*/5.0*	21.0/19.0	34.0/-	5.0	90/160	Active Part
<u>MPS-302201-87</u>	100-3000	11.5/10.5	0.50/0.80	1.6/2.5	1.6/2.5	3.5*/5.0*	22.0/20.5	35.0/-	5.0	90/160	Active Part
<u>MPS-0030H16-02</u>	10-300	14.5/16.0	0.50/0.80	2.0/-	2.0/-	-	27.0/25.5	33.5/-	7.0-8.0	240-270	Active Part
<u>MPS-173011-82</u>	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	Active Part
<u>MPS-173011-96</u>	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	
<u>MPS-173011-85</u>	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	Active Part
<u>MPS-213011-02</u>	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	Active Part
<u>MPS-213011-85</u>	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	Active Part
<u>MPS-213011-82</u>	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	Active Part
<u>MPS-1718A9-85</u>	1710-1785	15.5/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	100/150	Active Part
<u>MPS-1718A9-82</u>	1710-1785	15.5/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	100/150	
<u>MPS-1820A9D-02</u>	1800-2000	14.0/13.0	0.20/0.30	1.4/1.5	1.2/1.5	5.0/-	26.0/25.0	42.0/41.0	7.5	300-400	Active Part
<u>MPS-1820A9D-82</u>	1800-2000	14.0/13.0	0.20/0.30	1.4/1.5	1.2/1.5	5.0/-	26.0/25.0	42.0/41.0	7.5	300-400	Active Part
<u>ULA 808-82</u>	1800-	14.0/13.0	0.25/0.50	2.0/-	2.0/-	-	28.0/-	48.0/4	8.0	270-350	Active

	2100	0						6.0			Part
<u>MPS-182117-02</u>	1800-2100	14.0/13.0	-	2.0/-	2.5/-	-	28.5/-	45.0/42.0	7.5	380-450	Active Part
<u>MPS-182217-82</u>	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	Active Part
<u>MPS-182217-02</u>	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	Active Part
<u>MPS-1820A9-85</u>	1850-1910	15.5/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	100/137	Active Part
<u>MPS-1820A9-82</u>	1850-1910	15.5/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	100/137	Active Part
<u>MPS-172208-82</u>	1900-2000	13.0/12.0	0.20/0.50	2.0/2.5	2.0/2.5	5.0/-	26.0/25.0	38.0/-	7.5	380-450	Active Part
<u>MPS-172208-85</u>	1900-2000	13.0/12.0	0.20/0.50	2.0/2.5	2.0/2.5	5.0/-	26.0/25.0	38.0/-	7.5	380-450	Active Part
<u>MPS-003001-84</u>	20-3000	11.5/10.5	0.80/1.20	1.6/2.5	1.6/2.5	4.0*/-	21.0/19.0	34.0/-	5.0	90/160	Active Part
<u>MPS-003001-87</u>	20-3000	11.5/10.5	0.80/1.20	1.6/2.5	1.6/2.5	4.0*/-	21.0/19.0	34.0/-	5.0	90/160	Active Part
<u>MPS-2125A9D-02</u>	2100-2500	14.0/13.0	0.20/0.50	1.4/1.5	1.2/1.5	5.0/-	26.0/25.0	42.0/41.0	7.5	300-400	Active Part
<u>MPS-2125A9D-82</u>	2100-2500	14.0/13.0	0.20/0.50	1.4/1.5	1.2/1.5	5.0/-	26.0/25.0	42.0/41.0	7.5	300-400	Active Part
<u>MPS-242520-83</u>	2400-2500	13.0/12.0	0.30/0.50	3.0/-	2.0/-	-	36.0/35.0	-	8.0	750/900	
<u>MPS-242717-02</u>	2400-2700	13.0/12.0	-	2.0/-	-	-	28.0/-	45.0/42.0	6.0-7.0	380-450	Active Part
<u>MPS-253011-96</u>	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	
<u>MPS-253011-02</u>	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	Active Part
<u>MPS-253011-82</u>	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	Active Part
<u>MPS-253011-85</u>	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	Active Part

<u>MPS-252730-83</u>	2500/2700	13.0/12.0	0.40/0.60	3.0/-	2.0/-	-	36.0/35.0	-	8.0	759/900	Active Part
<u>MPS-0325A9D-82</u>	300-2500	12.5/13.5	0.20/0.60	1.4/1.7	1.2/1.7	4.0/-	25.0/-	42.0/39.0	7.5	300-330	Active Part
<u>MPS-032701A-82</u>	300-2700	20.0/-	1.0/-	2.0/-	2.0/-	5.0/-	20.0/19.0	34.0/-	5.0	320/360	Active Part
<u>MPS-032701A-96</u>	300-2700	20.0/-	1.0/-	2.0/-	2.0/-	5.0/-	20.0/19.0	34.0/-	5.0	320/360	
<u>MPS-343517-82</u>	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	Active Part
<u>MPS-343517-02</u>	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	Active Part
<u>MPS-343617-82</u>	3400-3600	13.0/12.0	-	2.0/-	2.2/-	-	29.0/-	48.0/44.0	7.5	350-420	Active Part
<u>MPS-343717-02</u>	3400-3700	12.5/11.7	-	1.5/-	2.5/-	-	28.5/-	45.0/42.0	6.0-7.0	330-400	Active Part
<u>MPS-343717-82</u>	3400-3700	12.5/11.7	-	1.5/-	2.5/-	-	28.5/-	45.0/42.0	6.7	380-450	Active Part
<u>MPS-363817-82</u>	3600-3800	13.0/12.0	-	2.0/-	2.2/-	-	29.0/-	48.0/44.0	7.5	350-420	Active Part
<u>MPS-0425A9D-82</u>	400-2500	14.0/13.0	-	1.4/1.7	1.2/1.7	-	25.0/-	42.0/-	7.5	300/330	Active Part
<u>MPS-0425A9D-96</u>	400-2500	14.0/13.0	-	1.4/1.7	1.2/1.7	-	25.0/-	42.0	7.5	300/330	
<u>MPS-3435A9D-82</u>	6400-3500	13.0/12.0	0.20/0.30	1.4/1.5	1.3/1.5	-6	24.0/23.0	41.0/39.0	7.5	300-400	Active Part
<u>MPS-081017-02</u>	800-1000	15.0/14.0	-	2.0/-	2.5/-	-	28.5/-	45.0/42.0	7.5	380-450	Active Part
<u>ULA 818-82</u>	800-1000	15.5/14.0	0.25/0.50	1.5/-	1.5/-	-	28.0/-	48.0/46.0	8.0	270-350	Active Part
<u>MPS-093011-82</u>	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	Active Part
<u>MPS-093011-96</u>	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	Active Part
<u>MPS-093011-85</u>	800-	16.0/14.0	0.25/0.50	-1.5	-2.2	-6	-30	45.0/4	7.5	380-450	Active

	1000	0/						3.0			Part
<u>MPS-0820A9D-02</u>	800-2050	13.5/12.5	-	1.4/-	1.4/-	5.5/-	24.0/-	43.0/-	6.0	220-280	Active Part
<u>MPS-082509-82</u>	800-2500	12.0/10.0	0.50/1.0	2.0/2.5	2.0/2.5	5.0/-	25.5/23.0	36.0/-	10.0	135/200	Active Part
<u>MPS-082509-85</u>	800-2500	12.0/10.0	0.50/1.0	2.0/2.5	2.0/2.5	5.0/-	25.5/23.0	36.0/-	10.0	135/200	Active Part
<u>MPS-082508-96</u>	800-2500	13.0/11.0	0.50/1.0	2.0/2.5	2.0/2.5	5.0/-	27.0/26.0	38.0/36.0	12.0	200/300	
<u>MPS-082508-82</u>	800-2500	13.0/11.0	0.50/1.0	2.0/2.5	2.0/2.5	5.0/-	27.0/26.0	38.0/36.0	12.0	200/300	Active Part
<u>MPS-082508-85</u>	800-2500	13.0/11.0	0.50/1.0	2.0/2.5	2.0/2.5	5.0/-	27.0/26.0	38.0/36.0	12.0	200/300	Active Part
<u>MPS-081017N-02</u>	800-960	13.5/12.0	-	2.0/-	2.0/-	1.0/1.3	21.0/-	36.0/-	6.0-7.0	180-250	Active Part
<u>MPS-081017P-02</u>	800-960	14.0/13.0	-	2.0/-	2.0/-	1.3/1.7	26.0/-	44.0/-	6.0-7.0	330-400	Active Part
<u>MPS-1720A9-02</u>	800-960	14.0/13.0	-	2.1/2.2	1.5/2.1	1.1/1.5	20.0/-	33.0/-	6.0	100-140	Active Part
<u>MPS-0810A9D-82</u>	800-960	14.0/13.0	0.20/0.30	1.4/1.5	1.2/1.5	5.0/-	26.0/25.0	42.0/41.0	7.5	300-400	Active Part
<u>MPS-0810A9-02</u>	800-960	15.0/14.0	-	1.5/-	2.0/-	1.1/1.5	20.5/-	34.0/-	6.0	160-240	Active Part
<u>MPS-080817N-82</u>	806-849	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-080817N-85</u>	806-849	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-080817N-02</u>	806-849	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-080817P-02</u>	806-849	14.0/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part
<u>MPS-080817P-85</u>	806-849	14.0/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part
<u>MPS-080817P-82</u>	806-849	14.0/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part

<u>MPS-0808A9-85</u>	806-849	16.0/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	180/250	Active Part
<u>MPS-080917N-02</u>	870-925	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-080917N-82</u>	870-925	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-080917N-85</u>	870-925	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-080917P-85</u>	870-925	14.5/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part
<u>MPS-080917P-02</u>	870-925	14.5/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part
<u>MPS-0809A9-82</u>	870-925	16.0/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	180/250	Active Part
<u>MPS-0809A9-85</u>	870-925	16.0/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	180/250	Active Part
<u>MPS-090917N-85</u>	925-960	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-090917N-02</u>	925-960	13.5/12.0	0.20/0.50	2.0/2.5	2.0/2.5	0.8/1.0	23.0/NA	36.0/33.0	7.5	180/250	Active Part
<u>MPS-090917P-02</u>	925-960	14.5/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part
<u>MPS-090917P-85</u>	925-960	14.5/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part
<u>MPS-0909A9-85</u>	925-960	16.0/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	180/250	Active Part
<u>MPS-0909A9-82</u>	925-960	16.0/14.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	22.0/NA	36.0/33.0	6.0	180/250	Active Part
<u>MPS-090917P-82</u>	-925-960	14.5/13.0	0.20/0.50	2.0/2.5	2.0/2.5	1.1/1.5	28.0/NA	44.0/42.0	7.5	330/400	Active Part

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