

RF/Microwave Devices

General-Purpose Hybrid Amplifiers (cont.)

Type Number	Package Outline	Supply Current (mA)	Stages	Gain (dB)	Noise Figure (dB)	Output at 1 dB Gain Comp (dBm)	Third-order Intercept Point (dBm)	V_o rms ¹⁾ (dB μ V)	V_{out} $d_{im}=-60$ dB (DIN45004A1) (dB μ V)	max VSWR ²⁾ input output	
12 V supply - "high level", 40 - 860 MHz (cont.)											
OM2082 ⁶⁾	fig. 99	135	2	20	7.5	—	+33.2	115	105	1.4	1.4
OM2083 ⁶⁾	fig.100	165	3	27	7.5	—	+33.8	115	105	1.4	1.4
24 V supply, 40 - 860 MHz											
OM320*	fig.101	33	2	15.5	5.5	—	—	92	—	2.2	2.5
OM321*	fig.102	33	2	15.5	6.0	—	—	98	—	2.5	2.0
OM335*	fig.103	35	3	27	5.5	—	—	99	—	1.9	3.2
OM322*	fig.104	60	2	15	7.0	—	—	103	—	1.7	1.7
OM336*	fig.105	65	3	22	7.0	—	—	105	—	1.4	1.6
OM339*	fig.106	66	3	28	6.0	—	—	107	—	1.5	1.5
OM323 ³⁾ *	fig.107	100	2	15	9.0	—	—	111	—	1.9	2.3
OM337*	fig.108	115	3	26	9.8	—	—	113	—	2.3	1.8

IV

General-Purpose Hybrid Amplifiers (cont.)

Type Number	Package Outline	Supply Current (mA)	Stages	Gain (dB)	Noise Figure (dB)	Frequency Range	V_o rms ⁵⁾ (dB μ V)	max VSWR ²⁾ input output	
12 V supply "satellite IF band"									
OM926	fig. 109	28	2	15-18	6.5	10-1750	111	1.7	1.7
OM926E	fig. 110	37.5	2	15-20	6.5	10-2050	113	2.2	1.9
OM926ESMD ⁶⁾	fig. 111	40	2	15-20	4.5	950-2050	115	1.7	1.7
OM956/1 ⁶⁾	fig. 112	45	3	20-24	4.5	950-2050	111	1.7	1.7

* Contact factory for availability.

1) measured at -60 dB intermodulation distortion to DIN45004B, par.6.3, 3-tone

2) the typical maximum VSWR occurring in the frequency range for a sample connected to a 75 Ω line

3) also available as A version without internal collector coil and blocking capacitor

4) for 40 - 600 MHz frequency range

5) measured at -35 dB intermodulation distortion to DIN45004B, par.6.3, 3-tone

6) under development