

## Push-Pull Amplifiers (50-870 MHz, $V_{DD} = 24\text{ V}$ , $Z_S = Z_L = 75\ \Omega$ )

Part Number	Gain (dB, min)	Gain (dB, max)	CTB <sup>1</sup> (dBc, max)	CSO <sup>1</sup> (dBc, max)	X-MOD <sup>1,3</sup> (dBc, max)	NF <sup>2</sup> (dB, max)	I <sub>DD</sub> (mA, max)
MC-7831	18.0	19.0	-57	-57	-50	7.0	240
MC-7832	22.0	23.0	-57	-57	-50	6.5	240
MC-7833	25.0	26.0	-57	-57	-50	6.0	240
MC-7834-KC <sup>4</sup>	20.0	21.0	-59	-59	-52	7.0	325

Notes:

1. Distortion measurements at  $V_{OUT} = 44\text{ dBm V}$  flat, 110 channels.
2. Noise Figure measured at 870 MHz.
3. Measured using EIAJ methods and procedures.
4. Higher current devices for better X-mod and crash point performance.

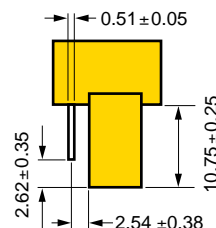
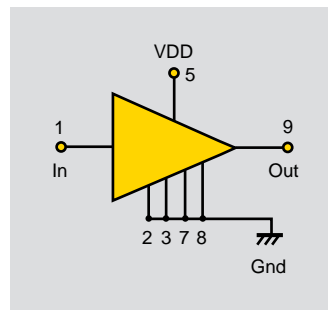
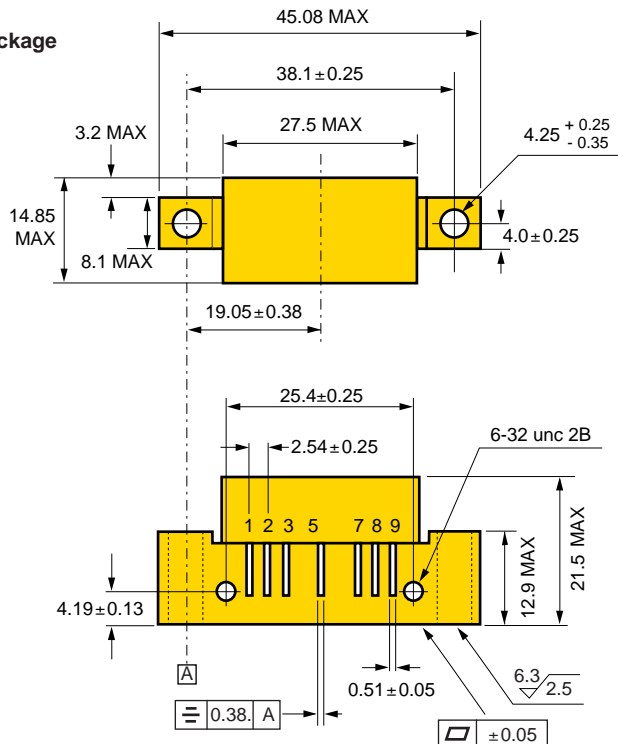
## Power Doubler Amplifiers (50-870 MHz, $V_{DD} = 24\text{ V}$ , $Z_S = Z_L = 75\ \Omega$ )

Part Number	Gain (dB, min)	Gain (dB, max)	CTB (dBc, typ)	CTB (dBc, max)	CSO (dBc, typ)	CSO (dBc, max)	X-MOD <sup>3</sup> (dBc, typ)	X-MOD <sup>3</sup> (dBc, max)	I <sub>DD</sub> (mA, max)
MC-7845 <sup>1</sup>	18.0	19.0	-63	-60	-68	-63	-59	-55	375
MC-7846 <sup>1</sup>	22.0	23.0	-63	-60	-67	-63	-60	-55	375
MC-7847 <sup>1</sup>	25.0	26.0	-65	-60	-67	-63	-62	-55	375
MC-7847-KC <sup>4</sup>	25.0	26.0	-	-60	-	-63	-	-55	420
MC-7881 <sup>2</sup>	18.0	19.0	-	-60	-	-63	-	-55	360
MC-7882 <sup>2</sup>	20.0	21.0	-	-60	-	-63	-	-55	360
MC-7883 <sup>2</sup>	22.0	23.0	-	-60	-	-63	-	-55	360
MC-7884 <sup>2</sup>	25.0	26.0	-	-60	-	-63	-	-55	360

Notes:

1. Distortion measurements are made with 110 channels loading,  $V_{OUT} = +50\text{ dBmV}$  at 745.25 MHz, 10 dB tilted across the band.
2. Distortion measurements are made with 110 channels loading,  $V_{OUT} = +52\text{ dBmV}$  at 745.25 MHz, 10 dB tilted across the band.
3. Measured using EIAJ methods and procedures.
4. Higher current devices for better X-mod and crash point performance.

### H02 Package



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