查询"MHW7185CLN"供应商 **CATV Amplifier Module**

Features

- Specified for 77 and 110 Channel Loading
- Lower DC Current Requirements
- **Excellent Distortion Performance**
- Excellent DC Current Stability over Temperature
- Silicon Bipolar Transistor Technology
- Unconditionally Stable Under All Load Conditions

Applications

- CATV Systems Operating in the 40 to 750 MHz Frequency Range
- Output Stage Amplifier in Optical Nodes, Line Extenders and Trunk Distribution Amplifiers for CATV Systems
- Driver Amplifier in Linear General Purpose Applications
- Amplifier Requiring Lower Power Dissipation While Maintaining Excellent Output Performance

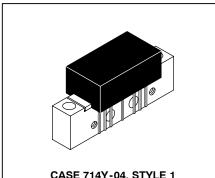
Description

- 24 Vdc Supply, 40 to 750 MHz, CATV Forward Power Doubler Amplifier
- Replaced MHW7185CL. There are no form, fit or function changes with this part replacement.
- **RoHS Compliant**

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MHW7185CLN

750 MHz **19.2 dB GAIN** 110-CHANNEL **CATV AMPLIFIER MODULE**



CASE 714Y-04, STYLE 1

Table 1. Maximum Ratings

Rating	Symbol	Value	Unit
RF Voltage Input (Single Tone)	V _{in}	+70	dBmV
DC Supply Voltage	V _{CC}	+28	Vdc
Operating Case Temperature Range	T _C	-20 to +100	°C
Storage Temperature Range	T _{stg}	-40 to +100	°C

Table 2. Electrical Characteristics (V_{CC} = 24 Vdc, T_C = +30°C, 75 Ω system unless otherwise noted)

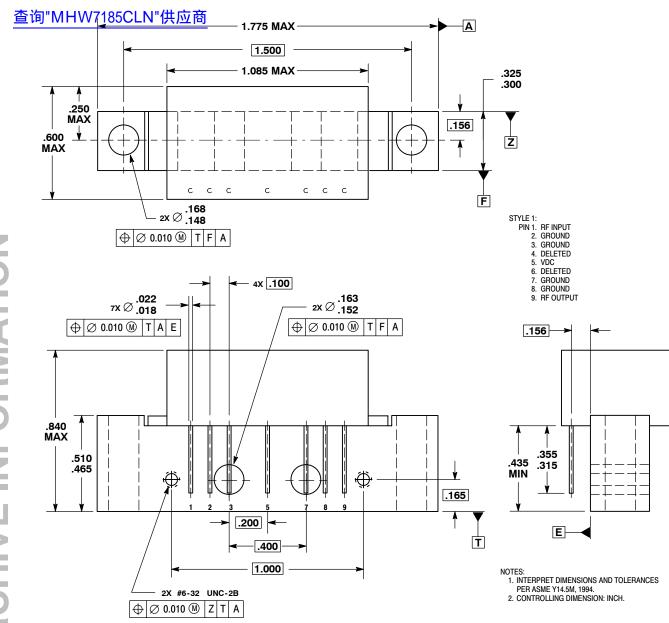
Characteristic		Symbol	Min	Тур	Max	Unit
Frequency Range		BW	40	_	750	MHz
Power Gain	50 MHz 750 MHz	G _p	18 18.7	18.5 19.2	19 19.7	dB
Slope	40 - 750 MHz	S	0.3	0.6	1.3	dB
Gain Flatness (40 - 750 MHz, Peak to Valley)		G _F	_	0.3	0.6	dB
Return Loss — Input/Output (Z ₀ = 75 Oh	ms) @ 40 MHz @ f > 40 MHz (Derate)	IRL/ORL	20 —	_ _	 0.007	dB dB/MHz
Composite Second Order (V _{out} = +44 dBmV/ch., Worst Case)	110-Channel FLAT 77-Channel FLAT	CSO ₁₁₀ CSO ₇₇	<u> </u>	-70 -83	-64 -68	dBc
Cross Modulation Distortion @ Ch 2 (Vout = +44 dBmV/ch., FM = 55 MHz)	110-Channel FLAT 77-Channel FLAT	XMD ₁₁₀ XMD ₇₇		-66 -69	-63 -67	dBc

Table 2. Electrical Characteristics (V_{CC} = 24 Vdc, T_{C} = +30°C, 75 Ω system unless otherwise noted) (continued)

查询"MHW7185 Chance 使的	奇	Symbol	Min	Тур	Max	Unit
Composite Triple Beat						dBc
(V _{out} = +44 dBmV/ch., Worst Case)	110-Channel FLAT 77-Channel FLAT	CTB ₁₁₀ CTB ₇₇	_	-63.5 -70	-61 -68	
Noise Figure	50 MHz 550 MHz 750 MHz	NF	_ _ _	5.3 5.8 6.5	6.2 — 7.5	dB
DC Current ($V_{DC} = 24 \text{ V}$, $T_{C} = -20 \text{ to } +10 \text{ cm}$	00°C)	I _{DC}	345	370	385	mA

ARCHIVE INFORMATION

PACKAGE DIMENSIONS



CASE 714Y-04 ISSUE H **ARCHIVE INFORMATION**

查询"MHW7185CLN"供应商

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