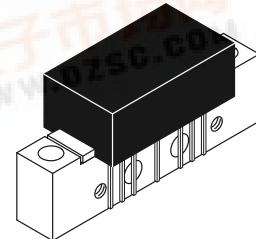


The RF Line
110-Channel (750 MHz) CATV
Line Extender Amplifier

- 24 V Supply Voltage
- Specified for 110-Channel Performance
- Typical Noise Figure
NF = 5.5 dB @ 750 MHz
- All Gold Metallization
- Improved CTB Performance over Previous Versions

MHW7272A

27 dB GAIN
750 MHz
110-CHANNEL
CATV AMPLIFIER



CASE 714Y-03, STYLE 1

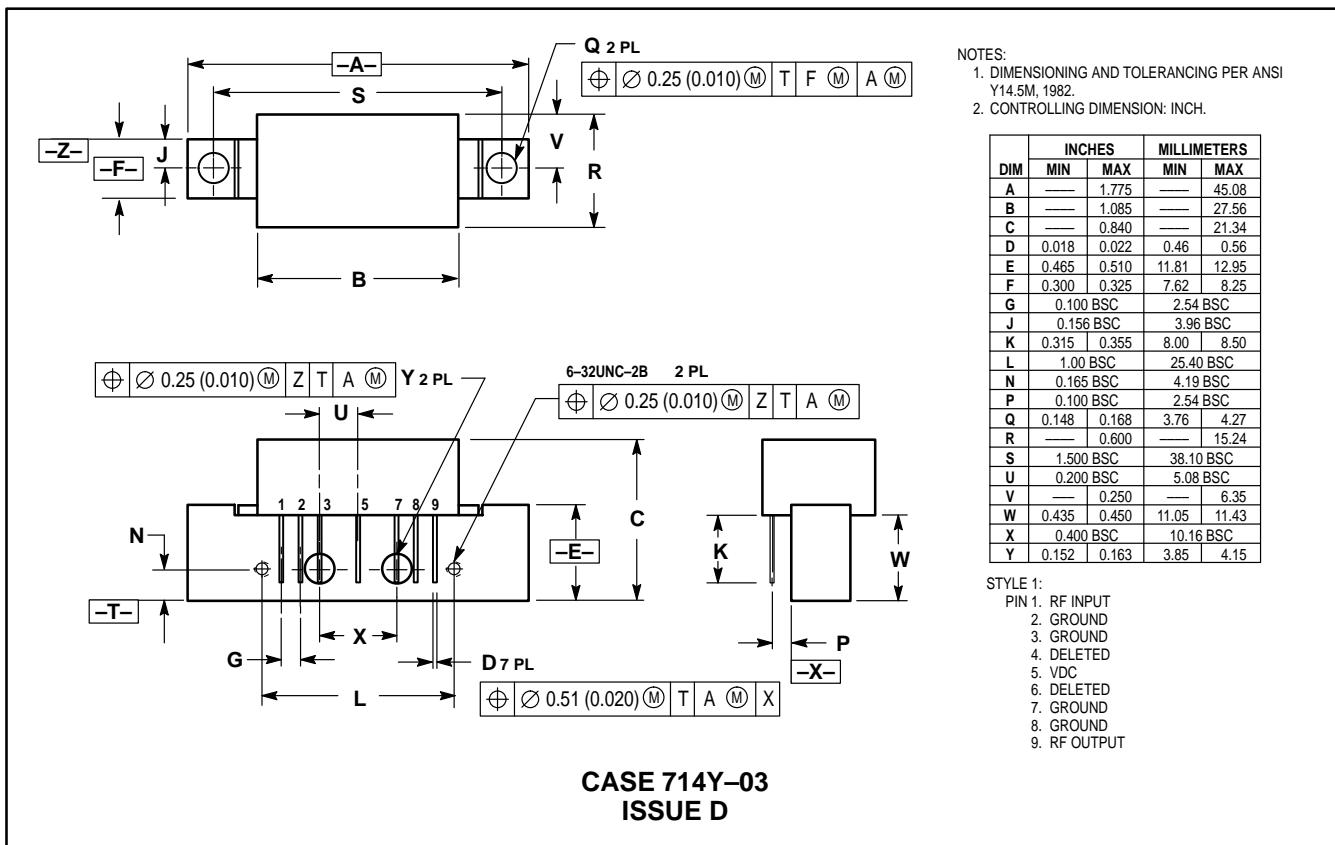
MAXIMUM RATINGS

Rating	Symbol	Value	Unit
RF Voltage Input (Single Tone)	V _{in}	+55	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

ELECTRICAL CHARACTERISTICS (V_{CC} = 24 Vdc, T_C = +30°C, 75 Ω system unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	40	—	750	MHz
Power Gain 50 MHz 750 MHz	G _p	26.2 27	27.2 27.7	27.8 29	dB
Slope 40–750 MHz	S	0	0.7	1.5	dB
Gain Flatness (40–750 MHz, Peak to Valley)	—	—	0.4	0.8	dB
Return Loss — Input/Output (Z ₀ = 75 Ohms) @ 40 MHz @ f > 40 MHz (Derate)	IRL/ORL	20 —	— —	— 0.007	dB dB/MHz
Composite Second Order (V _{out} = +40 dBmV/ch., Worst Case)	CSO110	—	-70	-64	dBc
Cross Modulation Distortion @ Ch 2 (V _{out} = +40 dBmV/ch., FM = 55 MHz)	XMD110	—	-63	-60	dBc
Composite Triple Beat (V _{out} = +40 dBmV/ch., Worst Case)	CTB110	—	-68	-64	dBc
Noise Figure 50 MHz 750 MHz	NF	— —	— 5.5	5.5 6.5	dB
DC Current (V _{DC} = 24 V, T _C = 30°C)	I _{DC}	280	310	350	mA

PACKAGE DIMENSIONS



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