

CONSUMER CIRCUIT SELECTION GUIDE BY FUNCTION

TV

Function	Circuits
AFT	μ A3064
Sound IF Amp. Lim. Detector	μ A3065
Video Amplifier	TBA970
Chroma Processing NTSC	μ A746, μ A780, μ A781, μ A787, μ A788
Chroma Processing PAL	TAA630S, TBA510, TBA520, TBA540, TBA560C, TBA990
Chroma Matrix	TBA530
Sync Separator Hor. Oscillator	μ A1391, μ A1394, TBA920
Audio Output	TBA800, TBA810S
Video Tape Recorders	μ A796

AUDIO

Function	Circuits
AM Radio	μ A720
AM-FM IF	μ A721
IF Amplifiers	μ A703, μ A753
IF Amp. Lim. Detectors	μ A2136, μ A3075, μ A3089
Stereo Demodulators	μ A732, μ A758, μ A767
Audio Preamplifiers	μ A739, μ A749, μ A7305
Four-Channel Sound	μ A1312, μ A1314, μ A1315
Dolby Noise Reduction	μ A7300
Audio Amplifiers	μ A706, TBA641, TBA800, TBA810S, TBA810DS
Tape Motor Speed Control	μ A7391

μA703

RF-IF AMPLIFIER

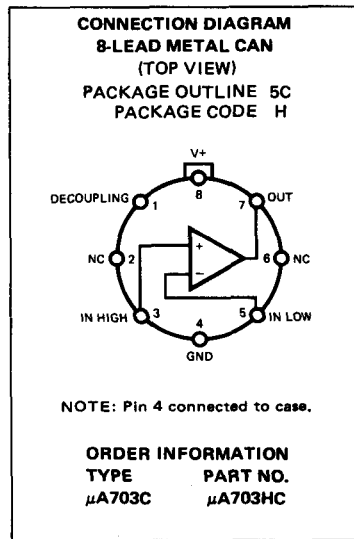
FAIRCHILD LINEAR INTEGRATED CIRCUIT

GENERAL DESCRIPTION — The μA703 is a monolithic RF-IF Amplifier constructed using the Fairchild Planar* epitaxial process and is intended for use as a limiting or non-limiting amplifier, harmonic mixer, or oscillator to 150 MHz. The low internal feedback of the device insures a higher stability-limited gain than that available from conventional circuitry. Including the biasing network in the same package reduces the number of external components required, thereby increasing the reliability and versatility of the device.

- 29 mmho MINIMUM FORWARD TRANSADMITTANCE
- 1.0 mmho/0.05 mmho MAXIMUM INPUT/OUTPUT CONDUCTANCE
- 18 pF/4.0 pF MAXIMUM INPUT/OUTPUT CAPACITANCE

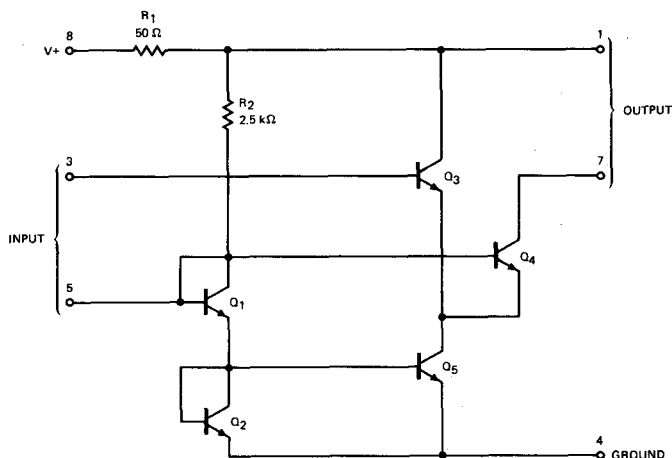
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	20 V
Output Collector Voltage	24 V
Voltage Between Input Terminals	±5.0 V
Internal Power Dissipation	200 mW
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 60 seconds)	300°C



10

EQUIVALENT CIRCUIT



*Planar is a patented Fairchild process.