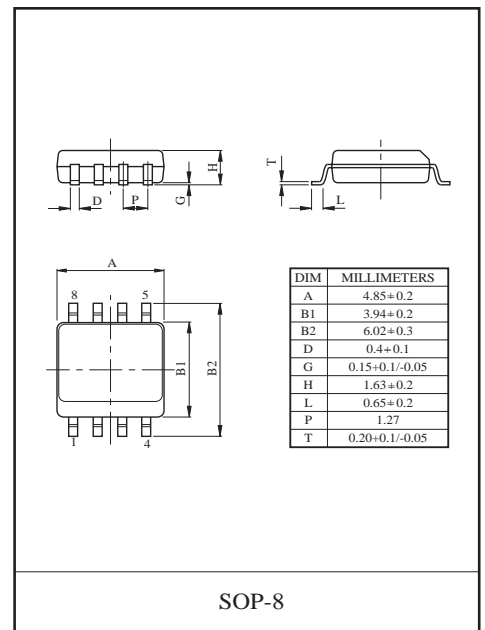
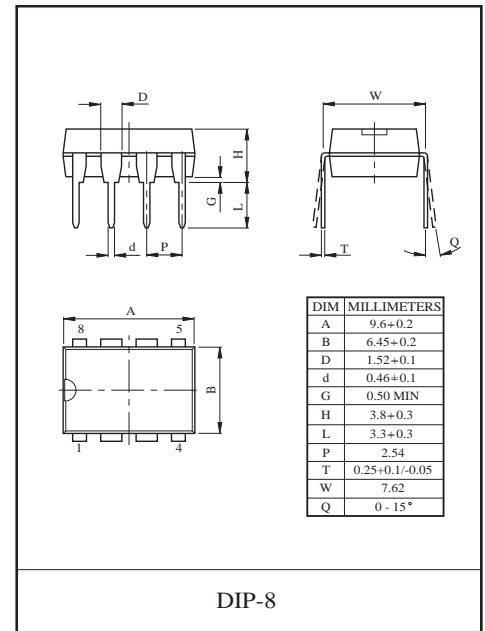
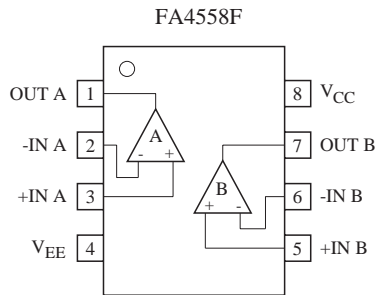
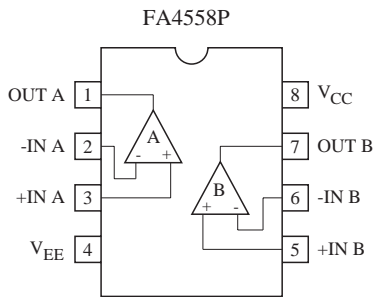


#### DUAL LOW NOISE OPERATIONAL AMPLIFIER

- Internal Frequency Compensation Type.
- Wide Band Range :  $f_T=3\text{MHz}$  (Typ.)
- Suitable Application for Active Filter and Equalizer Amplifier.

#### PIN CONNECTION (TOP VIEW)





# FA4558P/F

## MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Supply Voltage		$V_{CC}$ $V_{EE}$	36,+18 or 0,-18	V
Differential Voltage		$D_{VIN}$	$\pm 30$	V
Input Voltage		$V_{IN}$	$V_{CC} \sim V_{EE}$	V
Power Dissipation	FA4558P	$P_D$	500	mW
	FA4558F		240	
Operating Temperature		$T_{opr}$	-40 ~ 85	°C
Storage Temperature		$T_{stg}$	-55 ~ 125	°C
Pin ① to Pin ⑨ Maximum Current	FA4558S	$I_{max}$	1	A

## ELECTRICAL CHARACTERISTICS (V<sub>CC</sub>=15V, V<sub>EE</sub>=-15V, Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	$V_{IO}$	-	$R_g \leq 10k$	-	0.5	6	mV
Input Offset Current	$I_{IO}$	-	-	-	5	200	nA
Input Bias Current	$I_I$	-	-	-	60	500	nA
Common Mode Input Voltage	$CMV_{IN}$	-	-	$\pm 12$	$\pm 14$	-	V
Maximum Output Voltage	$V_{OM}$	-	$R_L=10k\Omega$	$\pm 12$	$\pm 14$	-	V
	$V_{OMR}$		$R_L=2k\Omega$	$\pm 10$	$\pm 13$	-	
Source Current	$I_{source}$	-	-	15	-	-	mA
Sink Current	$I_{sink}$	-	-	35	-	-	mA
Voltage Gain (Open Loop)	$G_V$	-	$V_{OUT} = \pm 10V, R_L=2k$	86	100	-	dB
Common Mode Input Signal Rejection Ratio	CMRR	-	$R_g \leq 10k\Omega$	70	90	-	dB
Supply Voltage Rejection Ratio	SVRR	-	$R_g \leq 10k\Omega$	-	30	150	$\mu V/V$
Slew Rate	SR	-	$G_V=1, R_L=2k\Omega$	-	1.0	-	V/ $\mu s$
Unity Gain Cross Frequency	$f_T$	-	Open Loop	-	3.0	-	MHz
Supply Current	$I_{CC}, I_{EE}$	-	-	-	4.0	6.0	mA
Equivalent Input Noise Voltage	$V_{NI}$	-	$R_S=1k\Omega, f=30Hz \sim 30kHz$	-	2.5	-	$\mu V_{rms}$

