

# NPN RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI HF220-50F** is a Common Emitter Device Designed for SSB Transmitter Applications in the 2 to 30 MHz Band.

**FEATURES INCLUDE:**

- $P_G = 13$  dB min. @ 30 MHz
- Gold Metallization
- Emitter Ballasting

**MAXIMUM RATINGS**

$I_C$	12 A
$V_{CB0}$	110 V
$P_{DISS}$	320 W @ $T_C = 25^\circ C$
$T_J$	-55 to +200 $^\circ C$
$T_{STG}$	-55 to +150 $^\circ C$
$q_{JC}$	0.55 $^\circ C/W$

**PACKAGE STYLE .500 4L FLG**

	MINIMUM Inches/mm	MAXIMUM Inches/mm
A	.220/5.59	.230/5.84
B	.125/3.18	
C	.245/6.22	.255/6.48
D	.720/18.28	.730/18.54
E	.125/3.18	
F	.970/24.64	.980/24.89
G	.495/12.57	.505/12.83
H	.003/0.08	.007/0.18
I	.090/2.29	.110/2.79
J	.160/4.06	.175/4.43
K	.280/7.11	
L	1.050/26.67	

1 = COLLECTOR    2 = BASE  
3 & 4 = EMITTER

**ORDER CODE: ASI10466**

**CHARACTERISTICS**  $T_C = 25^\circ C$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CB0}$	$I_C = 200$ mA	110			V
$BV_{CEO}$	$I_C = 200$ mA	55			V
$BV_{EBO}$	$I_E = 20$ mA	4.0			V
$I_{CES}$	$V_{CE} = 50$ V			10	mA
$h_{FE}$	$V_{CE} = 10$ V $I_C = 10$ A	10			---
$C_{OB}$	$V_{CB} = 50$ V MHz $f = 1.0$		330		pF
$P_G$	$V_{CE} = 50$ V $I_{CQ} = 150$ mA $f = 30$ MHz	13			dB
$IMD_3$	$P_{OUT} = 220$ W(PEP)			-30	dBc
$h_c$		40			%