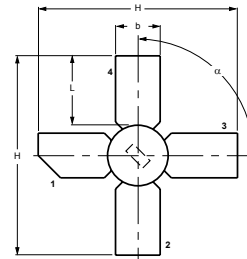
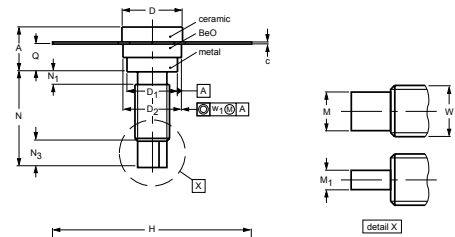


## DESCRIPTION

Designed primarily for wideband large-signal driver and predriver amplifier stages in 200–500 MHz frequency range.

## FEATURES

- Specified 28V, 400MHz Characteristi
- $P_o = 20W$  PEP
- $G_P = 10$  dB min. at 20 W/400 MHz
- Omnigold™ Metalization System



1. Collector
2. EMITTER
3. BASE
4. EMITTER

## DIMENSIONS

NOTE: ALL ELECTRODES ARE ISOLATED FROM FLANGE.

UNIT	A	b	c	D	D <sub>1</sub>	D <sub>2</sub>	H	L	M <sub>1</sub>	M	N	N <sub>1</sub> max.	N <sub>3</sub>	Q	W	w <sub>1</sub>	$\alpha$
mm	5.97 4.74	5.85 5.58	0.18 0.14	7.50 7.23	6.48 6.22	7.24 6.93	27.56 25.78	9.91 9.14	3.18 2.66	1.66 1.39	11.82 11.04	1.02	3.86 2.92	3.38 2.74	8-32 UNC	0.381	90°

## MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	$V_{CB0}$	60	V
Collector-Emitter Voltage	$V_{CES}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	35	V
Collector Current	$I_C$	2.2	A
Emitter-Base Voltage	$V_{EBO}$	4	V
Collector Power Dissipation	$P_{DISS}$	55	W
Junction Temperature	$T_J$	-65 to 175	°C
Storage Temperature Range	$T_{STG}$	-65 to 175	°C

## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=20mA, I_B=0$	35	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=20mA, V_{EB}=0$	60	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=2mA, I_C=0$	4	-	-	V
Collector Cutoff Current	$I_{CBO}$	$(V_{CB} = 30 V, I_E = 0)$			0.5	mA
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=0.5A$	20	-	100	
Collector Output Capacitance	$C_{ob}$	$V_{CB}=28V, I_E=0$ $f=1MHz$	-	20	24	pF
Power Gain	$G_P$	$V_{CC}=28V, P_{OUT}=20W$	10.0	11.0	-	dB
Collector Efficiency	$\eta_C$	$I_{idle}=100mA, f=400M$	50.0	60.0		%

Note : Above parameters , ratings , limits and conditions are subject to change .