VHF POWER MOSFET
N-Channel Enhancement Mode

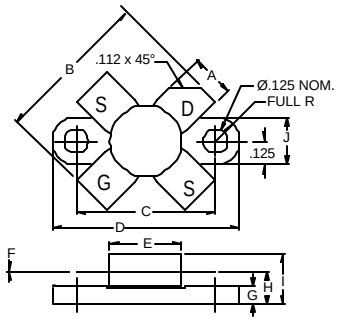
DESCRIPTION:
The **VFT15-12** is Designed for General Purpose Class B Power Amplifier Applications up to 175 MHz.

FEATURES:
- P_G = 12 dB Typ. at 15 W /175MHz
- **20:1 Load VSWR** Capability
- ***Omnigold***™ Metalization System

MAXIMUM RATINGS

I_D	5.0 A
$V_{(BR)DSS}$	40 V
V_{DGR}	40 V
V_{GS}	± 20 V
P_{DISS}	95 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	1.8 °C/W

PACKAGE STYLE .380 4L FLG



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

ORDER CODE: ASI10845

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{(BR)DSS}$	V_{GS} = 0 V	I_{DS} = 5 mA		40	---	---	**V**
I_{DSS}	V_{DS} = 15 V	V_{GS} = 0 V		---	---	2.0	**mA**
I_{GSS}	V_{DS} = 0 V	V_{GS} = 20 V		---	---	1.0	**µA**
V_{GS}	V_{DS} = 10 V	I_D = 25 mA		1.0	---	6.0	**V**
G_{FS}	V_{DS} = 10 V	I_D = 1.0 A		500	---	---	**mS**
C_{iss}	V_{GS} = 15 V	V_{DS} = 0 V	F = 1.0 MHz		45		**pF**
C_{oss}					45		
C_{rss}					10		
P_G	V_{DD} = 12.5 V	I_{DQ} = 25 mA	P_{OUT} = 15 W	10	12		**dB**
η_D	F = 175 MHz			60	65		%

Specifications are subject to change without notice.