

## APPLICATIONS

- ✧ Cell Phone CCD Camera Lines.
- ✧ Color LCD Protection.
- ✧ Clamshell Cell Phones.

## IEC COMPATIBILITY

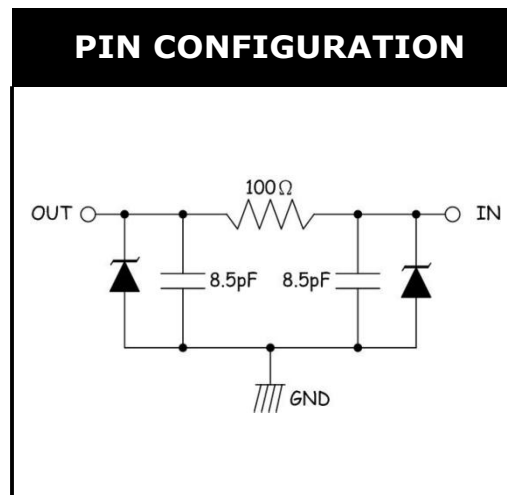
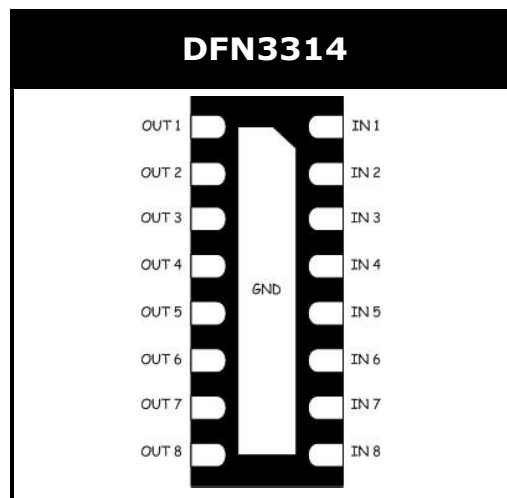
- ✧ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- ✧ IEC61000-4-4 (EFT): 40A - 5/50ns.

## FEATURES

- ✧ Filter performance: 30dB minimum attenuation 1.8GHz to 2.5GHz.
- ✧ Bidirectional EMI/RFI filter with integrated TVS for ESD protection.
- ✧ TVS working voltage: 5V.
- ✧ Resistor:  $100\Omega \pm 20\%$ .
- ✧ Typical Capacitance: 20pF (VR = 0V).
- ✧ Protection and filtering for eight lines.
- ✧ Solid-state technology.
- ✧ RoHS Compliant.

## MECHANICAL CHARACTERISTICS

- ✧ Nominal Dimensions: 3.3 x 1.35 x 0.50 mm.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

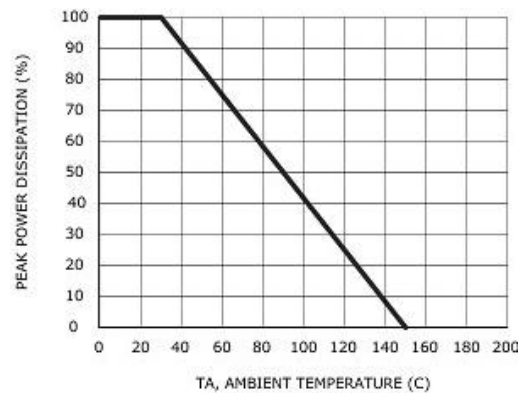
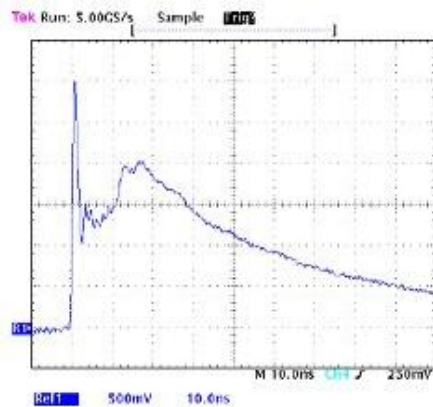


**DEVICE CHARACTERISTICS**
**MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

PARAMETER	SYMBOL	VALUE	UNITS
Lead Soldering Temperature	$T_L$	260 (10 sec.)	°C
Junction Temperature	$T_J$	125	°C
Operating Temperature Range	$T_{OP}$	-40 ~ 85	°C
Storage Temperature Range	$T_{STG}$	-55 ~ 150	°C

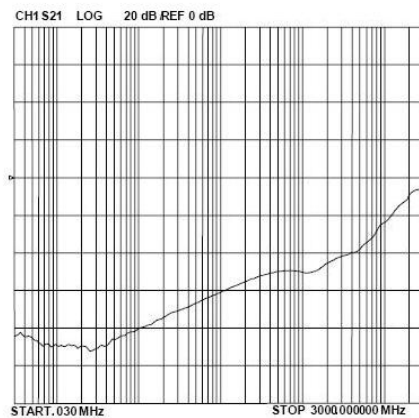
**ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)**

PART NUMBER	DEVICE MARKING	$V_{RWM}$ (V) (max.)	$V_B$ (V) (min.)	$I_R$ ( $\mu$ A) (max.)	$R$ ( $\Omega$ ) (Typ.)	F3dB (MHz) (Typ.)	F6dB (MHz) (Typ.)	$C_T$ @0V (pF) (Typ.)	$C_T$ @2.5V (pF) (Typ.)
EM2378K	K38	5	6.0	0.5	100	250	295	12.8	8.5

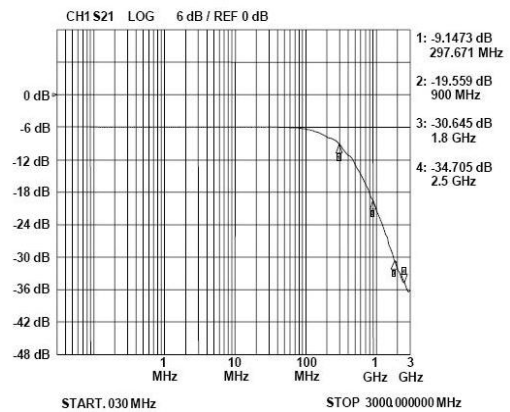


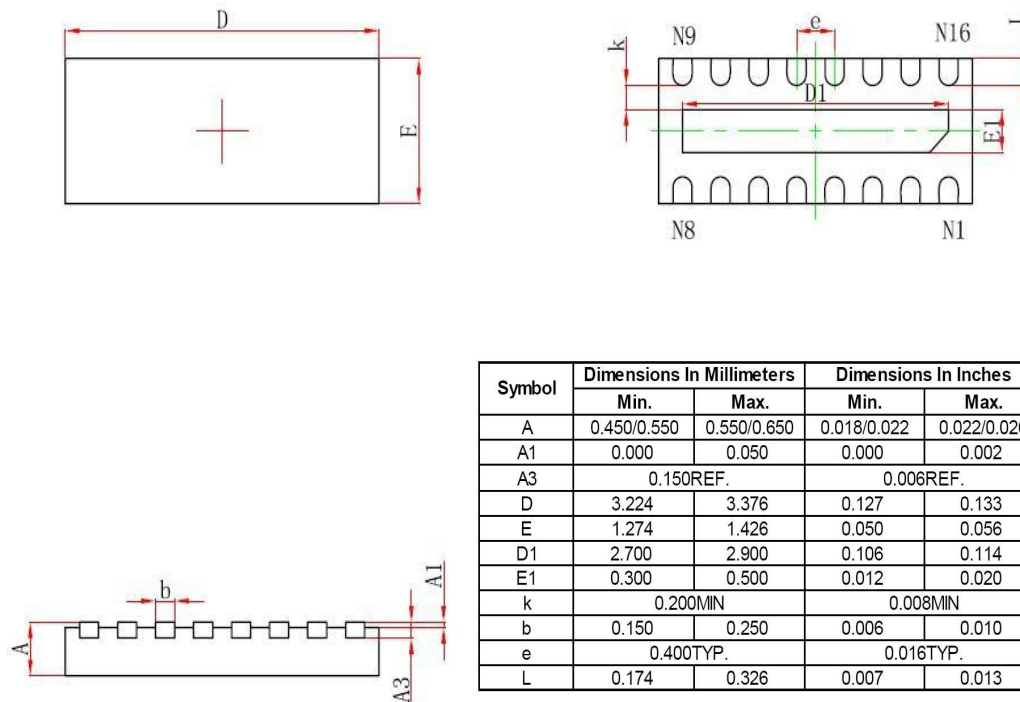
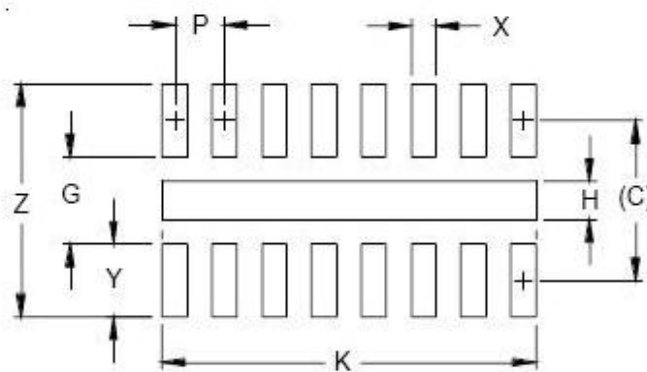
Power Derating Curve

Analog Crosstalk (Each Line)



Typical Insertion Loss S21 (Each Line)



**DFN3314 PACKAGE OUTLINE & DIMENSIONS**

**\* SOLDERING FOOTPRINT**


DIMENSIONS		
DIM	INCHES	MILLIMETERS
C	(.050)	(1.27)
G	.027	0.69
H	.012	0.30
K	.118	3.00
P	.016	0.40
X	.008	0.20
Y	.023	0.58
Z	.073	1.85

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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