

# PJ4254FN8C

## EMI FILTER ARRAY WITH ESD PROTECTION

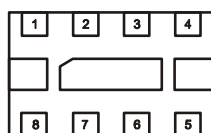
### FEATURES

- 4-Channel Integrated  $\pi$ -Type RC Filter
- IEC61000-4-2 Level 4 ESD Protection
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

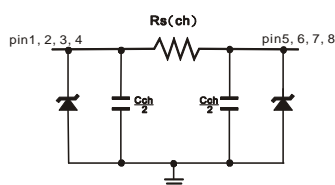
### MECHANICAL DATA

- Case: DFN1616-8L, plastic
- Terminals: solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00015 ounces, 0.0042 grams
- Marking : A45

TOP VIEW

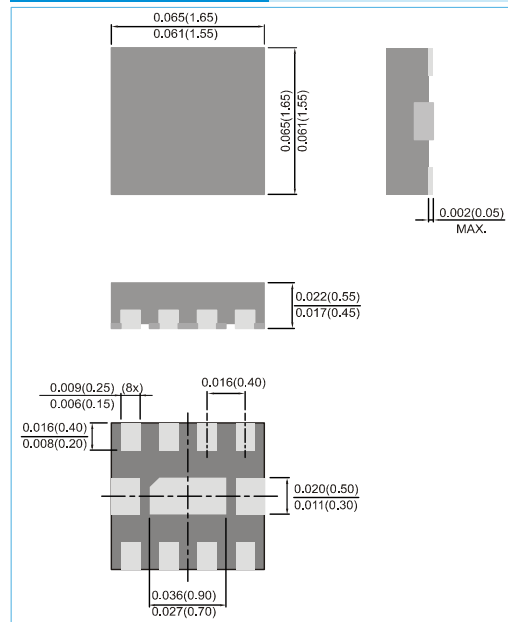


PIN	DESCRIPTION
1 and 8	filter channel 1
2 and 7	filter channel 2
3 and 6	filter channel 3
4 and 5	filter channel 4



### DFN1616-8L

Unit : inch(mm)



### MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Working Voltage	$V_{RWM}$	5.0	V
Electrostatic Discharge Voltage	Contact Air $V_{ESD}$ $V_{ESD}$	$\pm 8$ $\pm 15$	KV
Operating Junction Temperature and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Channel Series Resistance	$R_{S(CH)}$	-	80	100	120	$\Omega$
Reverse Leakage Current	$I_R$	$V_{BR} = 3.5V$	-	-	0.1	$\mu A$
Capacitance(Total Line Capacitance)	$C_d$	Between I/O lines to GND, $V_R = 0V, f = 1MHz$	-	50	55	pF
Breakdown Voltage	$V_{BR}$	$I_{BR} = 1mA$	5.8	-	9	V
Forward Voltage	$V_F$	$I_F = 1mA$	-	-	1.5	V
Insertion Loss	$\alpha_{il}$	$R_{source} = 50 \Omega, R_L = 50 \Omega$ $800MHz < f < 2 GHz$	-	12	-	dB
		$R_{source} = 50 \Omega, R_L = 50 \Omega$ $f = 1 GHz$	-	18	-	
Cut-off frequency	$f_{-3dB}$	$R_{source} = 50 \Omega, R_L = 50 \Omega$ $V_{BIAS(DC)} = 0V$ $\alpha_{il}$ at 1 MHz -3dB	-	110	-	MHz
Crosstalk Attenuation	$\alpha_{it}$	$R_{source} = 50 \Omega, R_L = 50 \Omega$ $800MHz < f < 2 GHz$	-	20	-	dB

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## RATING AND CHARACTERISTIC CURVES

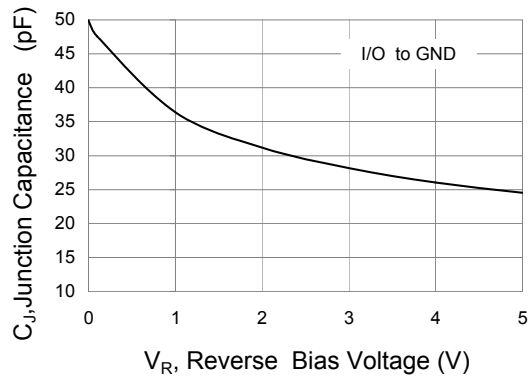


Fig.1 Typical Junction Capacitance

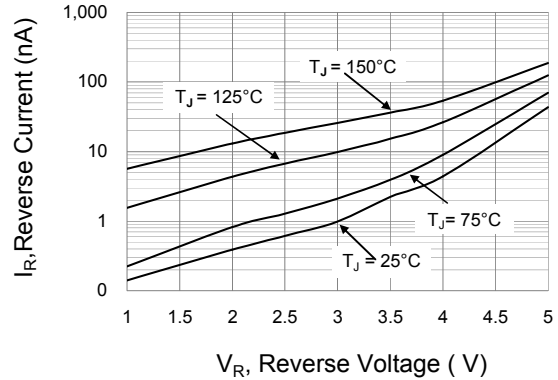


Fig.2 Typical Reverse Characteristics

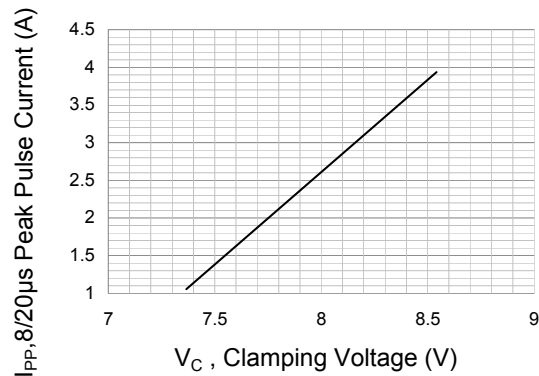


Fig.3 Typical Peak Clamping Voltage

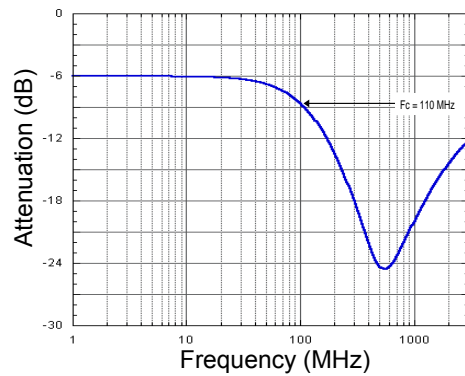
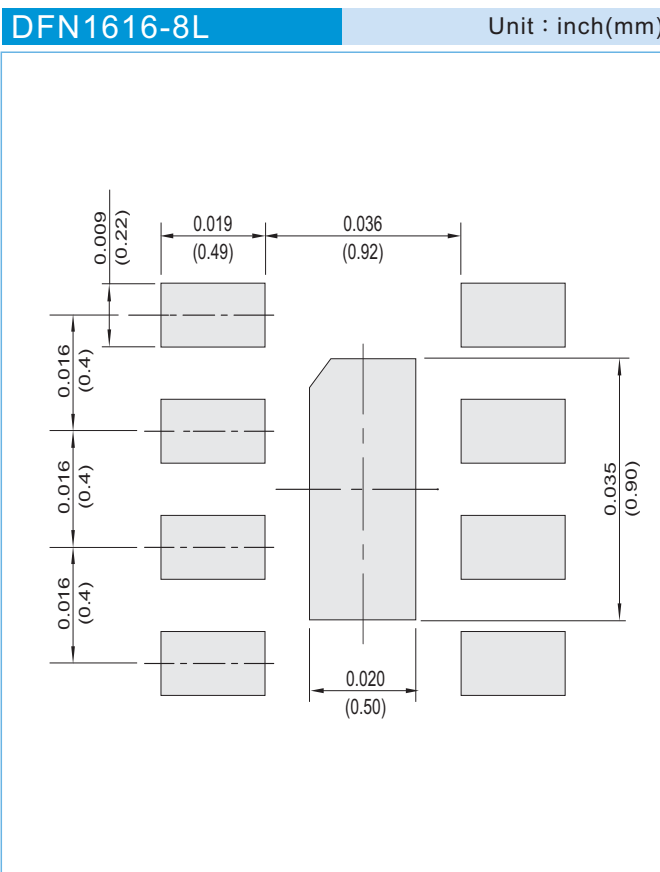


Fig.4 Attenuation VS Frequency

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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information

T/R - 1 S<sup>+</sup> per 7" plastic Reel

T/R - FGS<sup>+</sup> per FH<sup>+</sup> plastic Reel

## LEGAL STATEMENT

### Copyright PanJit International, Inc 2018

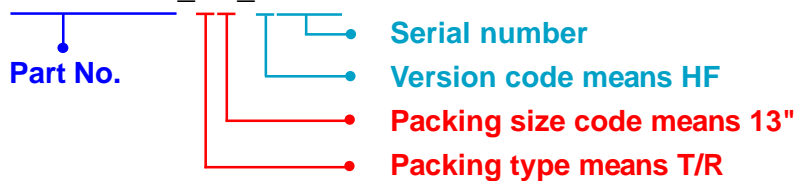
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## PJ4254FN8C

For example :

RB500V-40\_R2\_00001



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
T/B	<b>A</b>	N/A	<b>0</b>	HF	<b>0</b>	serial number
T/R	<b>R</b>	7"	<b>1</b>	RoHS	<b>1</b>	serial number
B/P	<b>B</b>	13"	<b>2</b>			
T/P	<b>T</b>	26mm	<b>X</b>			
TRR	<b>S</b>	52mm	<b>Y</b>			
TRL	<b>L</b>	PBCU	<b>U</b>			
FORMING	<b>F</b>	PBCD	<b>D</b>			

Part No\_packing code\_Version

PJ4254FN8C\_R1\_00001

PJ4254FN8C\_R2\_00001

PJ4254FN8C\_00001