

Diplexer Surface Mount

DPL-EDU1191+

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

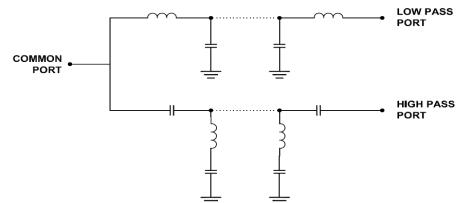
Please click "Back", and then click "Contact Us" for Applications support.



CASE STYLE : HU1186

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	395-705	-	0.3	0.8	dB
		Highpass	1595-1905	-	0.5	1.5	dB
	Return Loss	Lowpass	395-705	15	25	-	dB
		Highpass	1595-1905	14	25	-	dB
		Common	395-705	15	25	-	dB
			1595-1905	14	25	-	dB
Stop band isolation		Lowpass	1595-1905	44	54	-	dB
		Highpass	395-705	42	50	-	dB
Cross over isolation		Lowpass to Highpass	705-1595	10	35	-	dB

Functional Schematic



MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1W

PIN CONNECTIONS	
Highpass port	6
Lowpass port	13
Common port	2
Ground	1,3,4,5,7,8,10,11,12,14

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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)		CROSS OVER ISOLATION (dB) Between LPF and HPF	RETURN LOSS (dB)		
	Low Pass Port	High Pass Port		Common Port	Low Pass Port	High Pass Port
1	0.01	94.32	94.97	51.83	50.76	0.00
9	0.02	75.33	75.28	46.97	45.64	0.00
30	0.04	64.88	64.99	38.06	36.12	0.00
100	0.08	54.57	54.79	29.17	26.84	0.01
270	0.16	47.27	48.08	22.74	20.16	0.08
395	0.19	46.88	47.78	22.49	19.63	0.14
705	0.27	50.78	50.83	33.64	33.69	0.34
850	0.48	40.43	39.43	19.19	16.67	0.42
920	1.03	31.61	29.03	11.44	8.91	0.50
970	2.13	24.63	23.45	6.99	4.86	0.64
1020	4.27	14.42	19.76	4.07	2.33	1.09
1080	8.81	6.12	18.81	3.48	0.90	2.66
1150	16.07	2.42	22.11	6.24	0.45	5.40
1320	32.42	0.67	33.50	15.08	0.32	12.66
1595	58.50	0.41	56.10	29.56	0.33	37.20
1600	59.12	0.41	56.55	29.19	0.33	36.01
1750	53.09	0.41	53.53	25.73	0.33	26.06
1850	49.99	0.41	50.36	27.29	0.33	26.32
1900	49.02	0.41	49.29	28.52	0.34	27.05
1905	48.92	0.41	49.20	28.66	0.34	27.14

REV. X1

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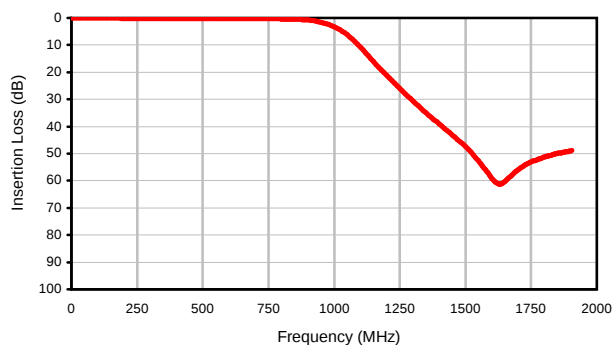


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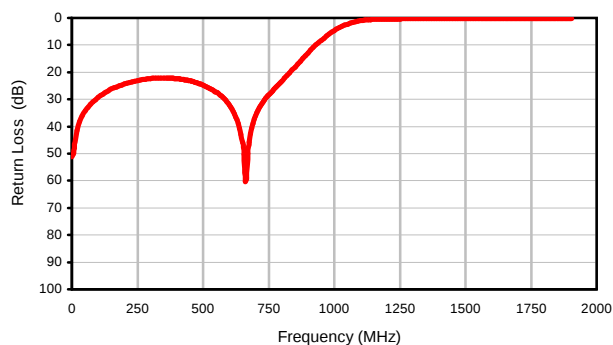
Typical Performance Curves

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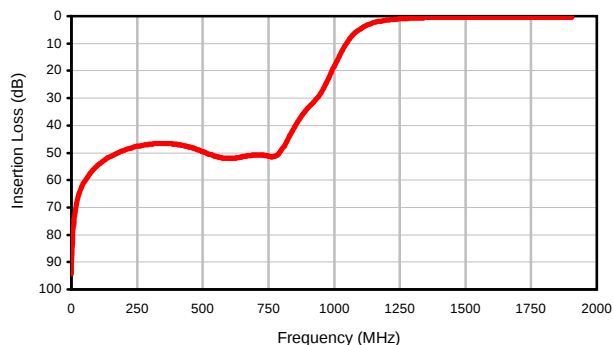
Low Pass Port Insertion Loss



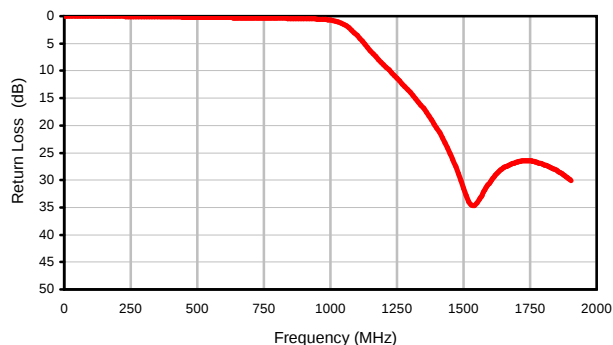
Low Pass Port Return Loss



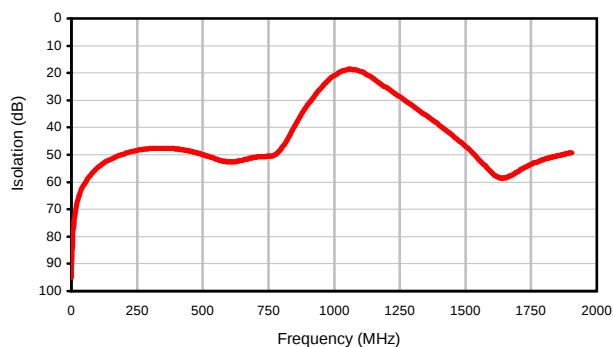
High Pass Port Insertion Loss



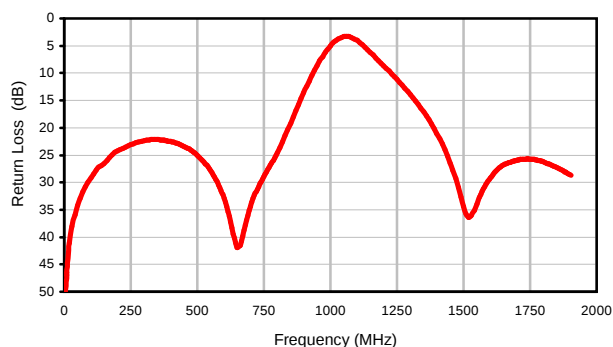
High Pass Port Return Loss



Cross Over Isolation



Common Port Return Loss



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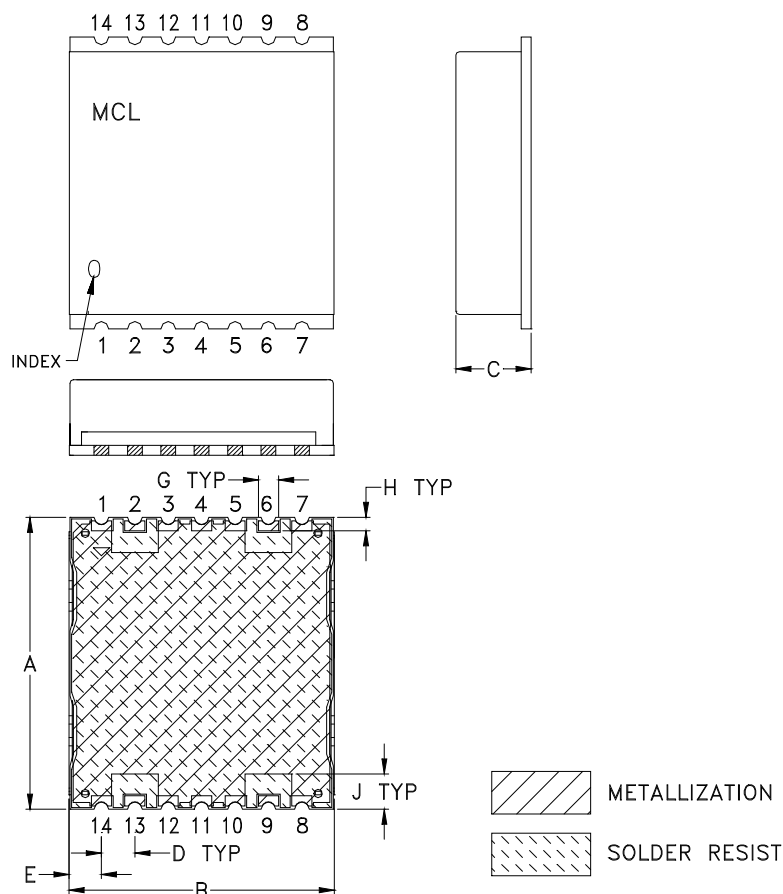
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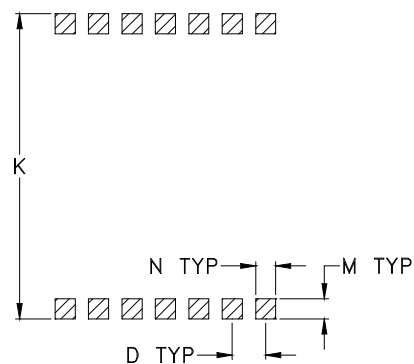


Outline Dimensions

HU1186



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N	P	WT, GRAM
HU1186	.870 (22.10)	.800 (20.32)	.25 (6.35)	.100 (2.54)	.097 (2.46)	- -	.060 (1.52)	.040 (1.02)	.105 (2.67)	.910 (23.11)	- -	.060 (1.52)	.060 (1.52)	- -	2.85

Dimensions are in inches (mm). Tolerances: 2PL. +/- .03; 3PL. +/- .015

Notes:

1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.
3. Termination finish:

For RoHS Case Styles: 2-5 μ inch (.05-.13 microns) Gold over 120-240 μ inch (3.05-6.10 microns) Nickel plate.
For RoHS-5 Case Styles: Tin-Lead plate.

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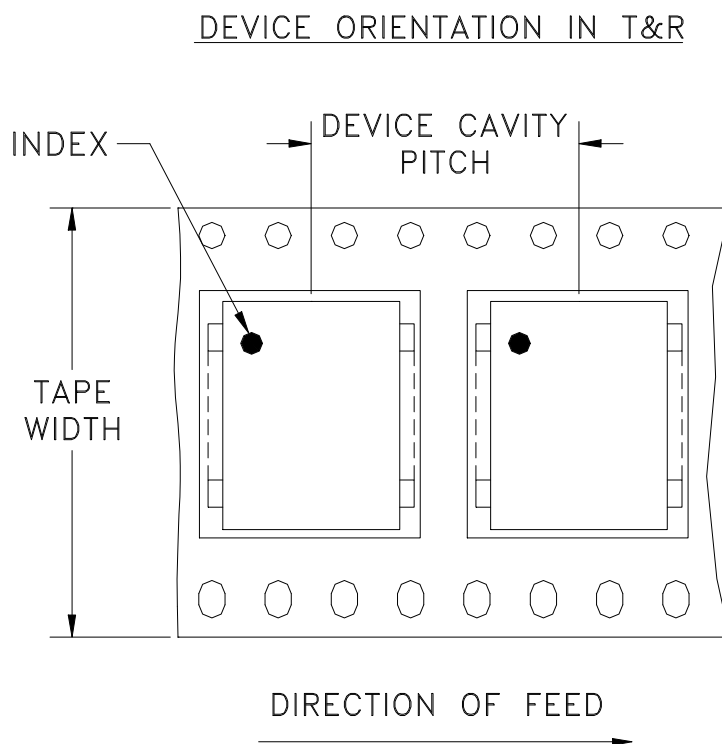
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Tape & Reel Packaging TR-F21



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	32	13	200

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