

Diplexer Surface Mount

DPL-EDU0985+

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.

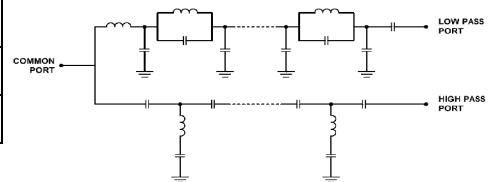


CASE STYLE : HU1186

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C							
Parameter		Port	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	Lowpass	800-2200		1	3.5	dB
		Highpass	2400-2500		1.5	3	dB
	Return Loss	Lowpass	800-2200	8.5	20		dB
		Highpass	2400-2500	8.5	20		dB
		Common	800-2200	8.5	20		dB
			2400-2500	8.5	20		dB
Stop band isolation		Lowpass	2400-2500	20	35		dB
		Highpass	800-2200	20	35		dB
Crossover isolation		Lowpass to Highpass	2200-2400	10	18		dB

Functional Schematic

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W



PIN CONNECTIONS	
Highpass port	13
Lowpass port	9
Common port	2
Ground	1,3,4,5,6,7,8,10,11,12,14

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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
10	0.05	70.57	77.10	46.11	45.71	0.00
50	0.07	61.91	61.62	35.43	35.58	0.01
100	0.09	55.78	55.88	30.26	30.45	0.00
200	0.14	49.98	50.06	25.20	25.53	0.02
400	0.23	44.43	44.98	20.45	21.00	0.05
600	0.33	41.46	42.71	18.59	19.30	0.12
800	0.40	39.30	40.89	18.32	19.22	0.19
1000	0.46	37.08	38.14	19.85	21.27	0.23
1500	0.62	33.88	34.41	23.58	23.29	0.36
1800	0.83	35.76	35.39	23.84	22.34	0.65
1900	0.98	27.66	28.06	22.52	18.47	1.17
2000	1.29	28.37	29.68	15.84	13.14	2.89
2100	1.68	34.11	41.56	13.45	11.27	2.07
2200	2.27	33.45	32.13	31.79	17.93	1.76
2250	4.91	15.17	21.34	13.77	8.00	3.10
2275	8.49	8.46	19.01	13.82	4.03	5.88
2300	13.20	4.89	19.48	23.69	2.15	10.87
2400	25.94	1.70	28.37	14.02	0.85	14.11
2450	30.68	1.37	32.00	13.93	0.74	14.74
2500	34.72	1.18	35.04	14.25	0.68	15.42

REV. X1

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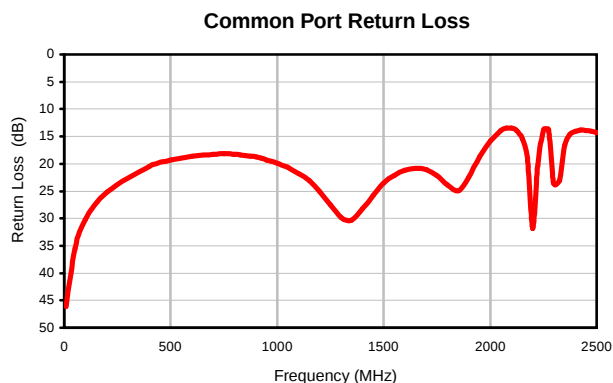
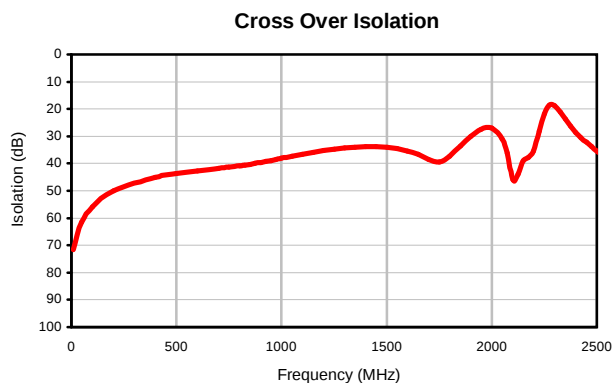
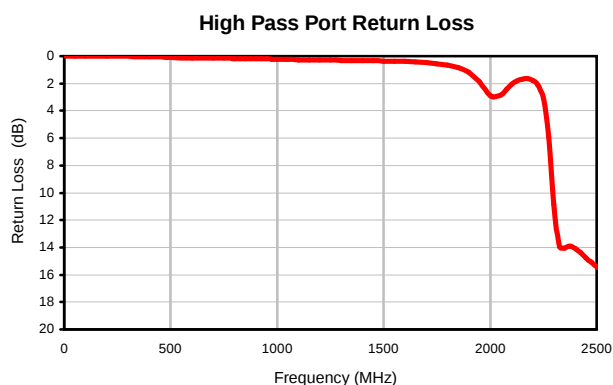
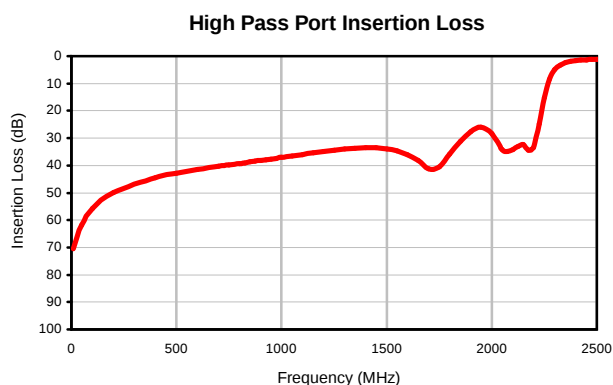
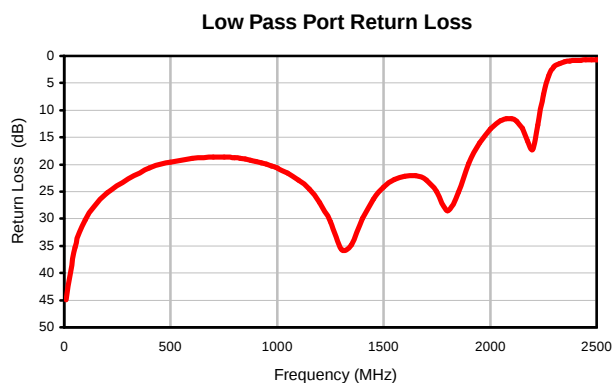
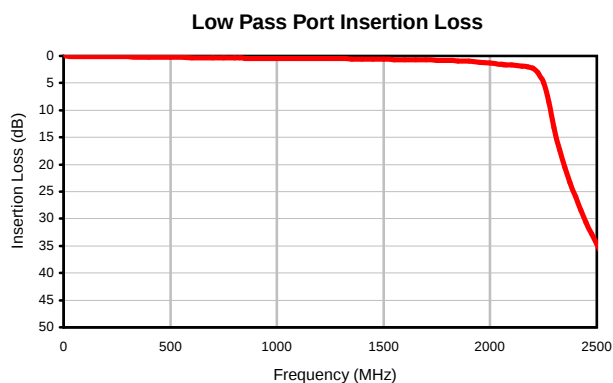
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Surface Mount Diplexer

Typical Performance Curves

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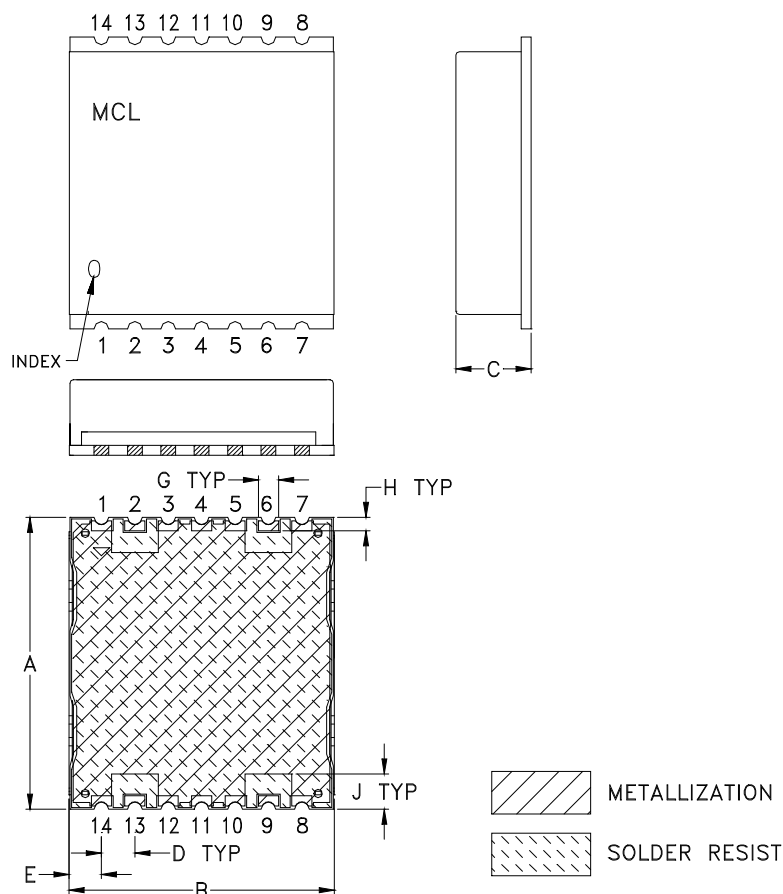


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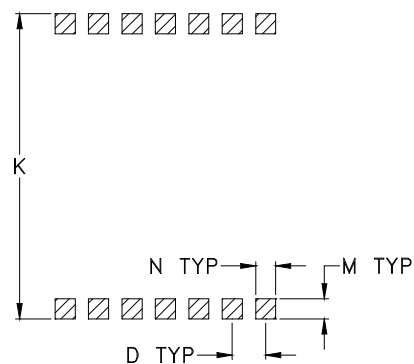


Outline Dimensions

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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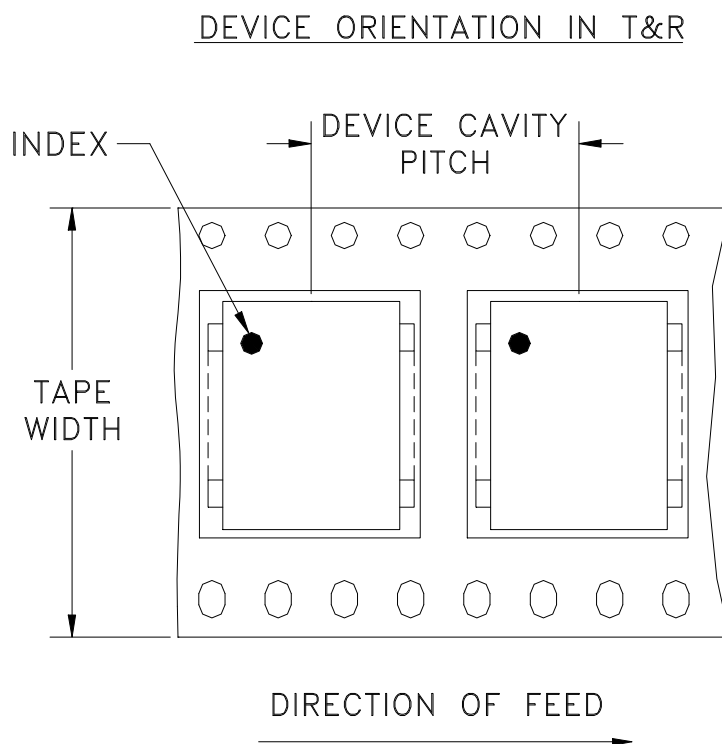
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Tape & Reel Packaging TR-F21



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