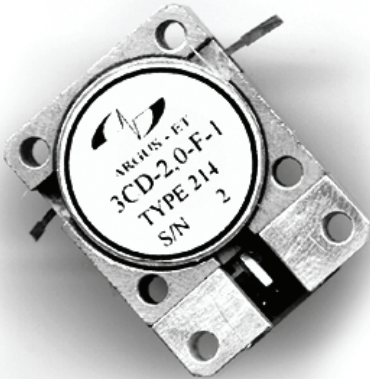


Part V. Drop-In Devices



APPLICATION NOTE FOR THE DROP-IN DEVICES

The DROP-IN ferrite isolators and circulators are available in three standard packages and designed for direct integration to stripline or microstrip circuitry. The rugged steel housing provides superior magnetic shielding and through hole mounting. This series is available from 0.57 to 9.6 GHz in various bandwidths.

- **Features**
 - Small size, light weight
 - Low cost.
- **Frequency range**
 - Frequency range of 0.57 to 9.6 GHz.
- **Mechanical mounting**
 - Compatible with 50-ohm adjacent devices.
- **Temperature range**
 - Standard temperature range –30 to 65°C, do not heat above 130°C
 - Electrical parameters perform at standard operating temperature range
 - Other temperature ranges are available.
- **Environmental**
 - Operated in waterproof equipment only
 - Humidity up to 80% none condensing.
- **Interpretation of the Model Part Number:**

3 **I** **D** - **0.66** - **1** **BW** **10**
1 **2** **3** **4** **5** **6** **6**

1. Frequency range:
 - 1-mm
 - 2-cm
 - 3-dm
2. Functional unit:
 - I-isolator
 - C-circulator
3. Type of connection:
 - D-drop-in
4. Center frequency of the device in GHz
5. Number of modification of housing Full frequency band in percent
6. BW – Bandwidth in %

DROP-IN ISOLATORS

(0.57 – 9.6 GHz)

FREQUENCY (GHz)	MODEL P/N	BAND WIDTH	INSERTION LOSS (dB)	ISOLATION (dB)	VSWR	OUTLINE #
0.570 - 0.630	3ID-0.6-1		0.50	20.0	1.25	
0.600 – 0.725	3ID-0.66-1	full	0.60	18.0	1.3	
0.700 – 0.800	3ID-0.75-1		0.50	20.0	1.25	1
0.800 – 1.600	3ID-XX-1	4%	0.30	22.0	1.20	
		8%	0.5		1.25	
1.200 – 1.400	3ID-1.3-1	full	0.50	20.0	1.30	
	3ID-1.3-3					2
1.600 – 2.200	3ID-XX-1	5%	0.30	22.0	1.20	
		10%	0.50	20.0	1.25	3
1.700 – 2.000	3ID-1.85-1					
1.800 - 2.000	3ID-2.0-1		0.70	18.0	1.30	
7.100 – 8.500	2ID-7.8-2	full		20.0	1.25	4
7.100 - 7.900	2ID-7.5-5		0.40	21.0	1.20	5
7.700 – 8.500	2ID-8.1-5					
8.200 - 9.600	2ID-8.9-2			20.0	1.25	4

(xx) Identifies the center frequency of the device in GHz.

OUTLINE #	DIMENSIONS, mm									
	W	L	A	B	C	E	F	h	H (max)	Fig.
1	25.40	31.75	20.80	20.80	3.80	7.60	2.30	3.70	8.10	1
2	25.40	25.40	20.80	20.80	3.80	7.60	2.30	3.80	6.35	2
3	19.05	25.40	14.50	14.50	2.00	6.22	2.28	3.00	8.10	1
4	12.70	15.30	9.65	11.33	1.27	5.20	1.50	1.78	6.30	1
5	12.70	12.70	9.65	9.65	1.78	4.32	1.50	1.65	5.08	2

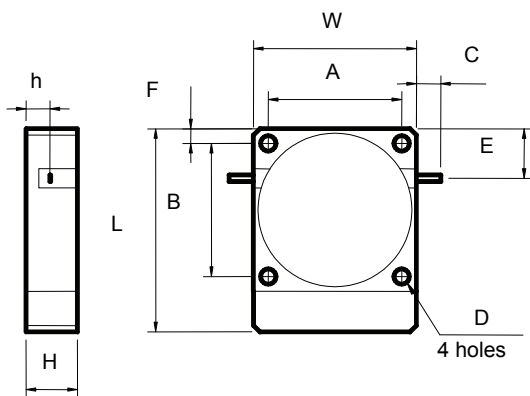


Fig. 1

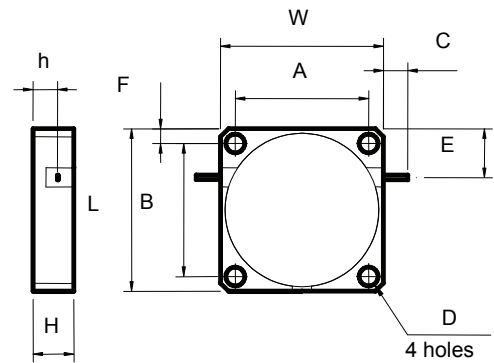


Fig. 2

DROP-IN CIRCULATORS

(0.6 – 2.2 GHz)

FREQUENCY (GHz)	MODEL P/N	BAND WIDTH	INSERTION LOSS (dB)	ISOLATION (dB)	VSWR	OUTLINE #
0.600 – 0.725	3CD-0.66-1	full	0.60	18.0	1.30	1
0.700 – 0.800	3CD-0.75-1		0.50	20.0	1.25	
0.800 – 1.600	3CD-XX-1	4%	0.30	22.0	1.20	2
	3CD-XX-2					
	3CD-XX-1	8%		20.0	1.25	1
	3CD-XX-2		0.50			2
1.200 – 1.400	3CD-1.3-1	full		18.0	1.30	1
1.600 – 2.200	3CD-XX-3	5%	0.30	22.0	1.20	3
		10%	0.50	20.0	1.25	
1.700 – 2.000	3CD-1.85-3	full		20.00		
1.800 – 2.200	3CD-2.0-3		0.70	18.0	1.30	

(xx) Identifies the center frequency of the device in GHz.

OUTLINE #	DIMENSIONS, mm									
	W	L	A	B	C	E	F	h	H (max)	Fig.
1	25.40	25.40	20.80	20.80	3.80	7.60	2.30	3.70	8.10	3
2	25.40	25.40	20.80	20.80	3.80	7.60	2.30	3.80	6.35	3
3	19.05	19.05	14.50	14.50	2.00	6.22	2.28	3.00	8.10	3

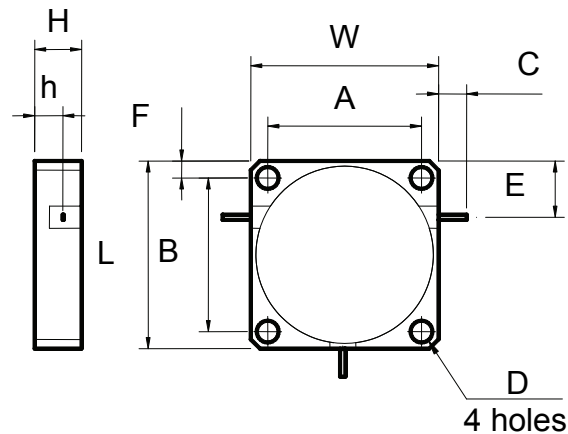


Fig.3