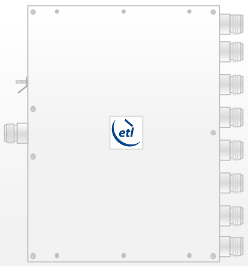
DIV08F6A-2333 PRELIMINARY DATASHEET

8-way IF Active Splitter



DIV08F6A-2333 is an 8-way active IF (10 to 1000MHz) splitter with 10MHz pass and DC block on all ports. It requires 8-18V external DC bias.

This component is available with the following RF connector options: 50 Ω SMA, N-type, BNC and 75 Ω BNC or F-type.

Summary table for RF performance over IF operation, 10 MHz to 1000 MHz

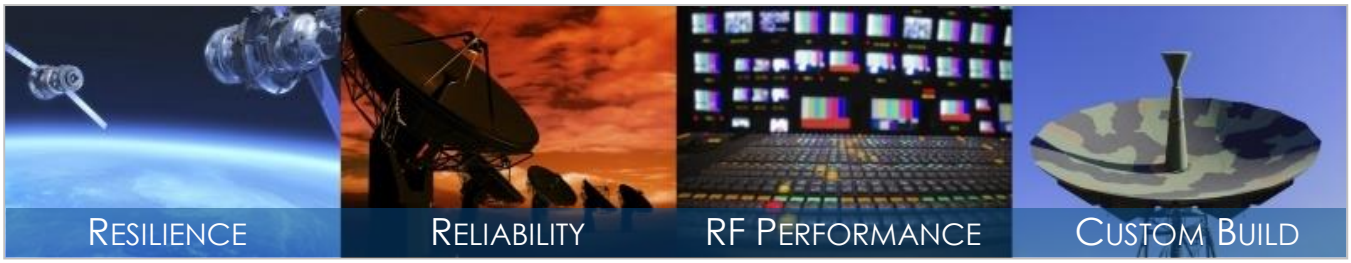
Model Numbers	Conn.	Gain (dB)	1dB GCP* Typical	1dB GCP* Min	NF (dB) Typical	NF (dB) Max	Return Loss (dB) Typical	Return Loss (dB) Min
DIV08F6A-2333-S5S5	50Ω SMA	0 ± 2	3	0	6	11	16	10
DIV08F6A-2333-N5N5	50Ω N-type	0 ± 2	3	0	6	11	16	10
DIV08F6A-2333-B5B5	50Ω BNC	0 ± 2	3	0	6	11	16	10
DIV08F6A-2333-B7B7	75Ω BNC	0 ± 2.5	1	-2	9	14	13	8
DIV08F6A-2333-F7F7	75Ω F-type	0 ± 2.5	1	-2	9	14	13	8

1dB Gain Compression Point (1dB GCP) is in relation to output power.
Maximum current consumption is 100mA, typically 80mA.
Isolation: Isolation between any 2 output ports is typically 25dB .
Isolation: Isolation (reverse gain) between the common port and any of the output ports is typically 35dB.
10MHz Insertion loss is typically sub 1dB, max 3dB.

Maximum acceptable operating parameters for reliable and safe operation

Parameter	Value	*Comment*
Input RF power	16dBm	Max total RF power
DC Voltage	24V	Any RF port
Operating temperature	0 to 50°C	Indoor use only
Storage Temperature	-40°C to +85°C	
Humidity	80%	Non-condensing
Altitude	10,000 feet	Above Mean See level

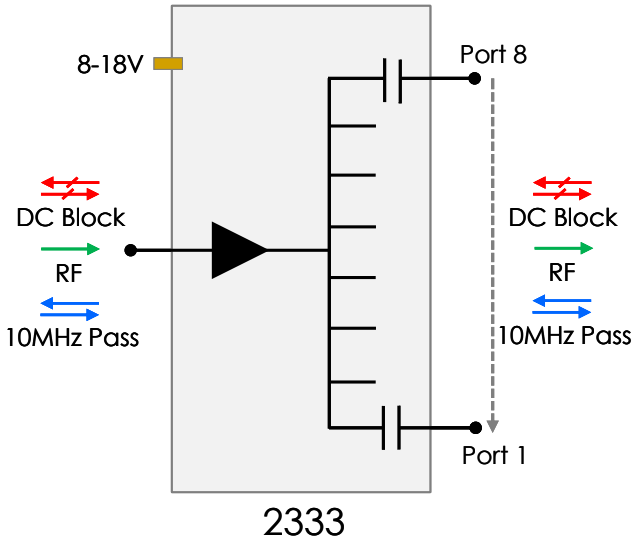
! Operation beyond these limits may cause instantaneous and permanent damage.

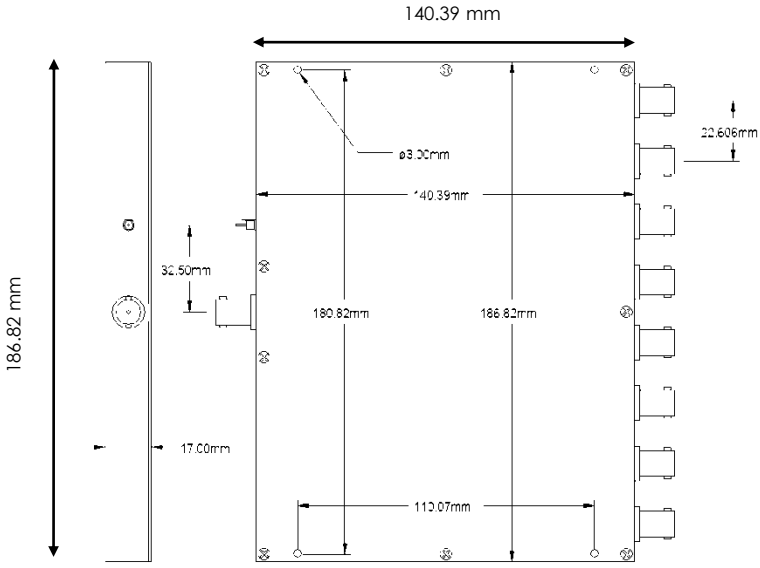


DIV08F6A-2333

8-way Active IF Splitter

Vector diagram & physical dimensions





Alternative 8-way IF Active Splitters

Model Number	Frequency (MHz)	Gain	Other Features
DIV08F6A-2333	10 to 1000	Unity gain	DC block and 10MHz pass on ALL ports
DIV08F3A-2335	20 to 200	Unity gain	DC block and 10MHz pass on ALL ports
DIV08F1A-2409	50 to 2800	Unity gain / flat response	10MHz pass and DC block on ALL ports.
DIV08B2A-2410	50 to 2150	Unity gain / flat response	10MHz pass and DC block on ALL ports.

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