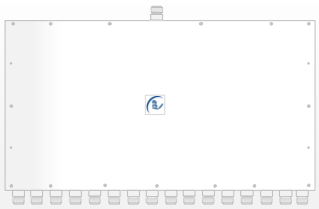
COM16F4P-2636

16-way Passive IF-band Splitter/Combiner



COM16F4P-2636 is a 16-way passive equi-phase and equi-amplitude IF (50 to 1000MHz) splitter/combiner with DC block on all ports.
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-band operation, 50 MHz to 1000 MHz

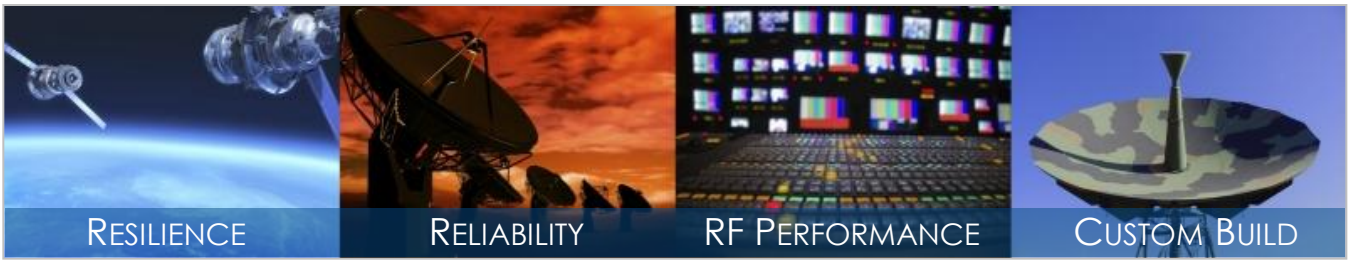
Model Numbers	Conn.	Insertion Loss* (dB)		Isolation (dB)		Return Loss (dB)		Phase & Amplitude Misalignment*		
		Typ.	Max	Typ.	Min	Typ.	Min	Φ	Amp(dB) Typ	Amp(dB) Max
COM16F4P-2636-S5S5	50Ω SMA	2.5	3.5	22	17	18	13	±7	±0.5	±1.0
COM16F4P-2636-N5N5	50Ω N-type	3.0	4	22	17	18	13	±7	±0.5	±1.0
COM16F4P-2636-B5B5	50Ω BNC	3.0	4	22	17	15	12	±7	±0.5	±1.0
COM16F4P-2636-B7B7	75Ω BNC	3.2	4.2	22	17	14	10	±7	±0.5	±1.0
COM16F4P-2636-F7F7	75Ω F-type	3.5	4.5	22	17	10	8	±7	±0.5	±1.0

** The quoted insertion loss is loss above theoretical due to power split. For 16-way splitters theoretical value is 12dB. Typical values may vary between different production batches.*
*** Phase and amplitude misalignment is at any spot frequency within 50 to 1000 MHz between any two ports.*

Maximum acceptable operating parameters for reliable and safe operation

Parameter	Value	*Comment*
Input RF power	+27 dBm (0.5W)	160-250 MHz 1W Max Power 200 µs (max 10% duty cycle)
DC Voltage	40V	Any RF port
Operating temperature	0 to 45°C	Indoor use only
Storage Temperature	-20°C to +75°C	
Humidity	95%	Non-condensing

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



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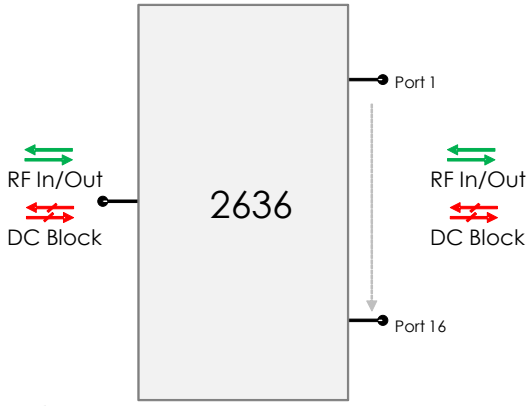
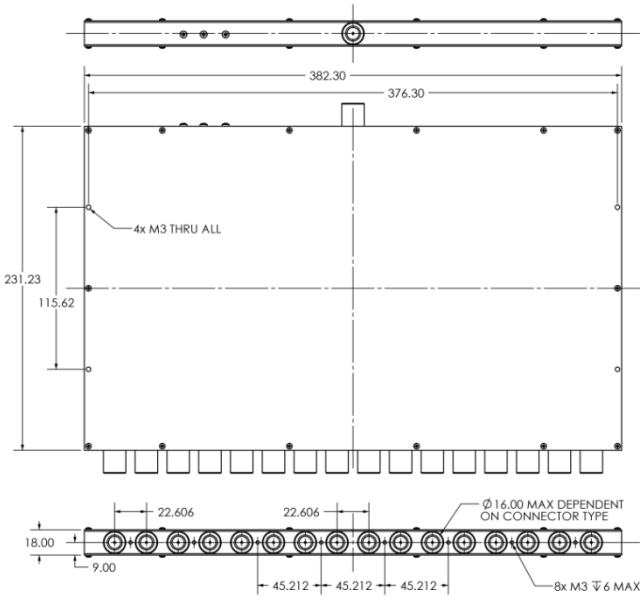
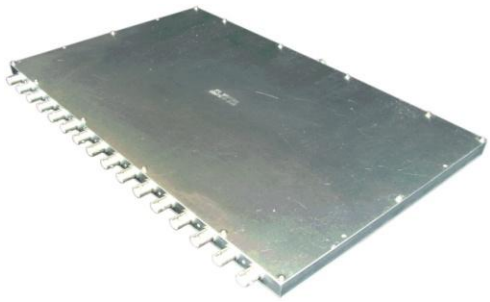
16-way Passive IF-band Splitter/Combiner

Vector diagram & physical dimensions







N.B: The housing and fixing holes may vary from time to time. This would be to expedite delivery by using an alternative suitable, similar housing. If this is a concern please advise with your order.

Feature set for some alternative 16-way Passive splitters/combiners

Model Number	Frequency (MHz)	DC Pass/Block	10 MHz Pass/Block
COM16F2P-2559	50 – 200	DC block on ALL ports	
COM16L1P-2526	850 – 2150	DC pass on ALL ports	10MHz pass on ALL ports
COM16L1P-2531	850 – 2150	DC block on ALL ports	
COM16L1P-2546	850 – 2150	DC block on ALL ports	
COM16L1P-2614	850 – 2150	DC pass on ONE port only, DC block on all other ports	10MHz pass on ONE port only, 10MHz block on all other ports
COM16L1P-2558	850 – 2150	DC block on ALL ports	10MHz block on ALL ports
COM16L1P-2592	850 – 2150	DC block on ALL ports	10MHz block on ALL ports
COM16F4P-2631	50-1000	DC block on ALL ports	equi-amplitude only
COM16F4P-2636	50-1000	DC block on ALL ports	equi-amplitude and equi-phase

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