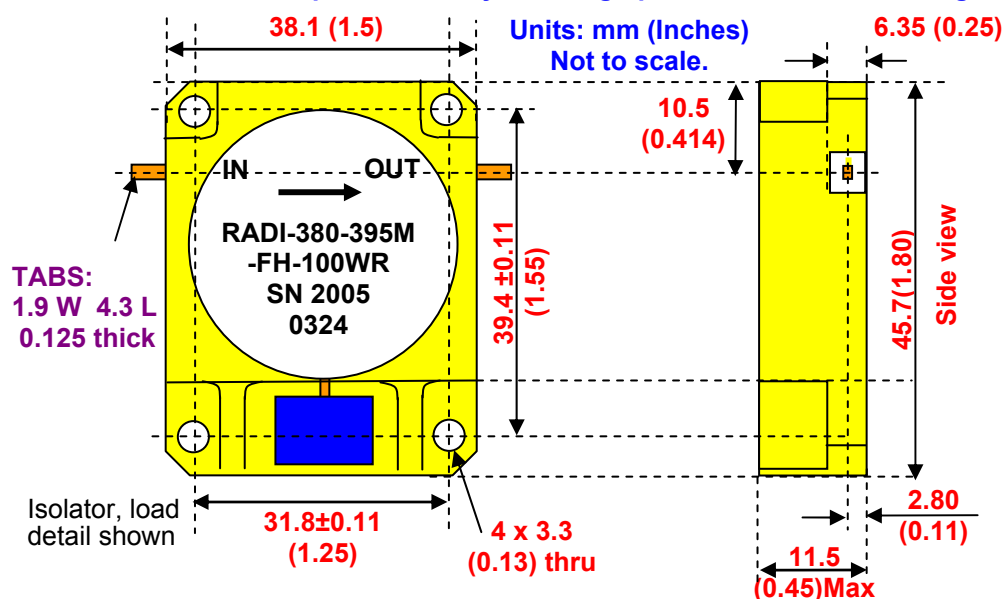


Isolator, Stripline Drop-In, FH 350 To 625 MHz

10W, 110W, 150W, 200W LOAD, A20 / A30 100W Attenuator

Other load models available.

RoHs compliant, no Beryllium, high performance ceramic magnet.



Standard ff strain relief.

20 mil ±10 mil
Radius (0.5±0.25mm)

Direction of RF:

R	Default	▶
L		◀

Tab plating: Silver plated Beryllium Copper.
Leads have stress relieve.

Surface mount	-S	Tab is level with base, add 0.10dB to IL
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Order Examples: RADI-420-450M-FH-100WR

Machined surface: $\sqrt[63]{}$
Housings are made from
Steel, Magnetically shielded,
Nickel plated.

Specifications (over full operating temperature range)

General specifications:

Max. Fwd power:	300 Watts	Average
Max. Fwd power:	300 Watts	Average
Max. Rev power(avg): (Load rating)	110 / 150 / 200W load 100W attenuator 10 / 30W (option)	Assumes infinite heat sink Load temp to be kept < 90°C
Forward Peak Power	>1KW	3:1 maximum VSWR Load On Output Port
Passband ripple	0.05 dB	Pk-Pk
Operating temp.	-20°C to 85°C	-54°C to 110°C storage
Attenuator type	-A20; -A30	20 dB or 30 dB 100W Rating
Phase Matching	-PM	+/- 5 degrees of gold standard
Surface mount	-S	Tab is level with base, add 0.10dB to IL
Low Intermodulation.	-H	-63dBc with two 50W tones, 5MHz apart

RADI-350-625M-FH-100WR-sj

Specifications may be subject to change

06/20/13

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

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Isolator, Stripline Drop-In, FH 350 To 625 MHz

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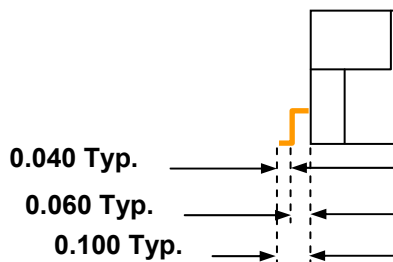
Use as rough guide only:-

Specifications						Units
Bandwidth (max.)	5	10	20	25	30	MHz
Insertion loss	0.25	0.35	0.4/5	0.5	0.6	dB (Min)
Isolation	21	20	19	19	18	dB (Max)
Return Loss	21	20	20	20	20	dB (Max)
Rated power (Forward)	300	300	300	300	300	
Rated power (Reverse)	110/150/200	110/150/200	110/150/200	110/150/200	110/150/200	Watts
Operating temperature	-30 to +85	-30 to 85	-30 to 85	-30 to 85	-30 to 85	°C
Storage temperature	-40 to 110	-40 to 110	-40 to 110	-40 to 110	-40 to 110	°C

Weight FF	0.2075 0.0942	lbs kg
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*Note: Handles Peak power of ≤ 200 W at pulse duration $\leq 50\mu s$.
Also at 150 Watts Peak for ≤ 1.5 msec. Pulse Width @ 5% Duty Cycle.
See also ff Circulator model

-S (SMT) Tab details:



Circuit Tabs can be bent flush with base for surface mounting "**option S**"
Adequate Plated thru holes to be on PCB Fab under part for grounding and heat dissipation.
Customer to ensure temperature does not exceed 85°C on full 110W reverse power

Full band, Full temp, Unless specified

Freq Mhz	BW %	Insertion Loss, dB Max	Isolation Min dB	Return Loss Min dB	VSWR		
351-356		0.3	23 min 28 target	21	1.2:1	-30 to 85 std -40 to 85 target	-U <-65dbc 4 carriers at 500K apart, 40dbm / channel
370-400		0.6	18	18			
380-395		0.35	18	19			
381-386		0.3	23 min 28 target	21	1.2:1	-30 to 85 std -40 to 85 target	-U <-65dbc 4 carriers at 500K apart, 40dbm / channel
380-420	10	0.45	16.5	17	1.49:1	@ 85°C 0.3 / 18 / 17 @ RT	-30 to 85 std
386-389		0.25	21	21	1.18:1		
390-395		0.25	23	23	1.15:1		
390-450		0.5	18	18	1.28:1	-40 to 85°C	

RADI-350-625M-FH-100WR-sj

Specifications may be subject to change

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Freq Mhz	BW %	Insertion Loss, dB Max	Isolation Min dB	Return Loss Min dB	VSWR		
400-450		0.45	15	15	1.43:1	0.4 / 16 / 16 @ RT	
400-470	WB	0.55	17	14	1.49:1		p
405-455		0.45	15	15	1.43:1		
410-420		0.4	19	19	1.25:1		
410-425		0.4	19	19	1.25:1		p
410-440		0.35	19	19	1.25:1		
410-470		0.5	16	17	1.49:1	Conf dc 2-27-07	
420-450		0.35	19	19	1.25:1		
420-470		0.9	17	17	1.49:1		
440-460		0.4	19	19	1.25:1		p
425-430		0.3	21	21	1.18:1		
425-455		0.5	19	19	1.25:1		
430-450		0.4	19	19	1.25:1		
443-496		0.5	18	18	1.28:1		
445-455		0.35	20	20	1.22:1		
445-460		0.35	19	19	1.25:1		
450-470		0.35	20	20	1.22:1	Conf dc 09/22/10	
450-500		0.4	18	18	1.28:1		
453-457.5		0.25	21	21	1.18:1		
454-476		0.35	19	19	1.25:1		
458-470		0.35	19	19	1.25:1		
460-470		0.35	19	19	1.25:1		
460-486		0.4	20	19	1.25:1		
489-495		0.3	20	20	1.22:1		
575-625		0.5	19	19	1.25:1		
578-584		0.4	19	19	1.25:1		

Frequency (F _{LO} F _{HI})		401 – 420 B	420 – 470 B	430 – 450 B		
Bandwidth	MHz	Full	Full	Full		
Insertion loss	dB (Min)	0.5	0.6	0.3		
Isolation	dB (Max)	20	18	22		
Return Loss	dB (Max)	20	19	22		
VSWR, input / output		1.30:1	1.25:1	1.25:1		
Rated power (Forward)	Watts	200	200	200		
Rated power (Reverse)	Watts	100	30	30		
Operating temperature	°C	0 to 85	-25 to +85	-25 to +85		
Storage temperature	°C	-40 to 110	-40 to +125	-40 to +125		

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Analysis of Difference FG-b model and FH-sj model

		FH-Sj	FG-b	
Dimensions: All same except	Height	11.5mm (0.45")	9.3mm (0.37")	
	Tab Height	3.3 mm (0.13")	4.0mm (0.157")	Tabs have strain relief so can accept either height
	Hole Diameter	3.43 mm (0.125")	3.4 mm (0.134")	
	Mounting Screw height	6.35mm (0.25")	9.3mm (0.37")	
	Spec 420- 450MHz	0.3/19/1.25 at -30-80C	0.5/20/1.3 at 0-80C	
Delivery		21days	49 days	