

# Collins Torsional Mechanical Filters

This is a sample listing of filters we produce. If you don't find a filter listed here that meets your requirements, please contact us and we will be pleased to assist you.

## Symmetrical Torsional Filter Product Specifications

Center Frequency (kHz)	Filter Bandwidths (KHz)						Loss Max. (dB)	Number of Resonators	Case Style	Part Number	Comments
	Min. BW	@	dB	Max. BW	@	dB					
112.00	0.60	@	3	12.00	@	40	6	2	MP	526-8761-010	Sonar filter ( controlled phase )
112.00	1.20	@	3	60.00	@	40	3.5	2	MP	526-8760-010	Sonar filter ( controlled phase )
112.00	2.00	@	3	120.00	@	40	3.5	2	MP	526-8755-010	Sonar filter ( controlled phase )
308.05	1.60	@	3	3.40	@	60	5	8	GT	526-8764-010	
308.90	1.60	@	3	3.40	@	60	5	8	GT	526-8763-010	
309.75	1.60	@	3	3.40	@	60	5	8	GT	526-8765-010	
450.00	0.50	@	3	3.50	@	60	10	7	LP	526-8633-010	
450.00	4.80	@	2	7.60	@	57	4	11	PL	526-8756-010	
450.00	6.40	@	3	12.50	@	70	4	10	PL	526-8753-010	
450.00	6.40	@	3	13.60	@	60	4	8	PS	526-8720-010	
451.66	0.44	@	3	1.50	@	60	8	8	PS	526-8687-010	
453.30	1.40	@	3	4.80	@	60	5	8	PS	526-8729-010	
455.00	0.07	@	1	1.00	@	60	7	9	LP	526-8631-010	
455.00	0.20	@	3	1.00	@	60	10	11	LP	526-8587-010	
455.00	0.20	@	3	1.00	@	60	10	11	LP	526-8596-010	
455.00	0.24	@	3	1.00	@	60	10	8	PS	526-8733-010	Low-Cost Product Line
455.00	0.34	@	6	1.00	@	60	10	8	PS	526-8577-010	
455.00	0.40	@	3	1.00	@	60	9	11	LP	526-8598-010	
455.00	0.45	@	3	2.00	@	60	5	7	PS	526-8686-010	DGPS
455.00	0.45	@	3	4.00	@	60	7	5	LP	526-8610-010	
455.00	0.47	@	3	1.65	@	60	6	7	PS	526-8666-010	
455.00	0.49	@	3	2.00	@	60	5	7	PS	526-8693-010	Low-Cost Product Line
455.00	0.50	@	3	4.00	@	60	7	5	LP	526-8610-030	
455.00	0.50	@	3	2.50	@	60	6	6	FP	526-8514-020	
455.00	0.60	@	3	1.50	@	60	8	8	LP	526-8676-010	
455.00	0.65	@	3	4.00	@	60	7	5	LP	526-8675-010	
455.00	0.70	@	3	2.00	@	55	8	8	PS	526-8732-010	
455.00	0.95	@	3	5.00	@	60	4	6	LP	526-8611-020	
455.00	0.95	@	3	5.00	@	60	4	7	FP	526-8527-010	
455.00	1.00	@	3	2.40	@	65	5	8	PS	526-8706-010	Controlled phase
455.00	1.00	@	3	2.40	@	65	5	8	PS	526-8706-020	Same as -010 but no phase
455.00	1.25	@	3	2.70	@	60	5	8	PS	526-8752-010	
455.00	1.8	@	6	3.8	@	60	5	10	PL	526-8754-010	
455.00	1.90	@	3	4.40	@	60	5	8	PS	526-8742-010	
455.00	1.90	@	6	5.00	@	60	4	7	LP	526-8612-010	
455.00	2.00	@	3	4.40	@	60	5	8	PS	526-8731-010	
455.00	2.26	@	6	4.60	@	66	5	10	PL	526-8739-010	
455.00	2.40	@	3	6.00	@	60	3	8	LP	526-8645-010	DF receiver
455.00	2.40	@	3	4.20	@	66	3	12	LP	526-8751-010	
455.00	2.40	@	3	5.20	@	60	5	8	PS	526-8694-010	Low-Cost Product Line
455.00	2.50	@	3	5.50	@	60	5	8	PS	526-8700-020	
455.00	2.56	@	6	4.90	@	66	6	10	PL	526-8728-010	
455.00	2.70	@	3	4.40	@	60	5	12	LP	526-8518-010	
455.00	2.70	@	3	6.00	@	60	5	8	PS	526-8759-010	
455.00	2.70	@	6	6.80	@	60	5	7	FP	526-8592-010	
455.00	2.80	@	3	7.50	@	60	4	7	FP	526-8563-020	
455.00	2.85	@	3	7.60	@	60	4	7	PS	526-8667-010	
455.00	2.90	@	3	12.50	@	60	3	12	LP	526-8528-010	

## Symmetrical Filters Continued

Center Frequency (kHz)	Filter Bandwidths (KHz)						Loss Max. (dB)	Number of Resonators	Case Style	Part Number	Comments
	Min. BW	@	dB	Max. BW	@	dB					
455.00	2.95	@	3	6.40	@	60	5	8	PS	526-8709-010	
455.00	3.00	@	3	6.50	@	65	4	8	PS	526-8711-010	Controlled phase
455.00	3.10	@	6	6.20	@	60	3	8	SM	526-8740-010	Surface Mount Package
455.00	3.24	@	3	4.80	@	60	4	12	LP	526-8601-010	Controlled Delay
455.00	3.80	@	3	10.00	@	60	5	7	PS	526-8710-010	Narrow AM For Europe
455.00	4.50	@	3	10.00	@	45	2.5	8	DC	526-8750-010	Controlled Delay
455.00	4.70	@	3	11.75	@	60	3	7	LP	526-8646-020	
455.00	5.50	@	3	11.00	@	60	5	8	PS	526-8695-010	Low-Cost Product Line
455.00	5.50	@	3	14.50	@	60	5	6	PS	526-8715-010	Controlled Delay
455.00	5.50	@	3	9.80	@	60	4	10	LP	526-8590-010	
455.00	6.00	@	3	10.70	@	60	4	10	LP	526-8590-020	
455.00	5.60	@	3	30.00	@	60	3	6	PS	526-8684-010	Controlled Delay
455.00	5.80	@	2	9.70	@	20	4	4	FP	526-8628-010	FSK - Almost Butterworth
455.00	6.00	@	3	15.00	@	60	4	8	LP	526-8677-010	
455.00	6.00	@	3	12.00	@	65	4	8	PS	526-8712-010	Controlled Phase
455.00	6.70	@	3	14.00	@	60	5	8	PS	526-8734-010	Low-Cost Product Line
455.00	7.60	@	6	30.00	@	60	5	7	LP	526-8614-010	
455.00	8.00	@	3	19.00	@	60	2	8	FP	526-8561-010	
455.00	9.50	@	3	28.50	@	60	4	8	PS	526-8669-010	
455.00	10.00	@	3	20.00	@	60	4	8	PS	526-8735-010	Low-Cost Product Line
455.00	11.50	@	3	32.00	@	60	4	6	LP	526-8591-010	
455.00	12.00	@	3	100.00	@	60	4	6	LP	526-8678-010	
455.00	14.00	@	3	46.00	@	50	5	6	PS	526-8685-010	Controlled Delay
455.00	16.00	@	3	36.00	@	50	4	8	LP	526-8639-010	
455.00	19.00	@	3	55.00	@	60	4	7	PS	526-8670-010	
455.00	19.00	@	3	42.00	@	50	7	8	LP	526-8638-010	
455.00	20.00	@	3	50.00	@	60	4	9	LP	526-8680-010	Phase Matched (sets of 8)
455.00	22.00	@	1	32.00	@	50	4	11	LP	526-8701-010	
456.00	16.00	@	1	80.00	@	60	6	6	LP	526-8556-010	
456.70	1.40	@	3	5.20	@	60	5	8	PS	526-8730-010	
490.00	0.30	@	6	2.40	@	60	8	6	PS	526-8749-010	Navtex
500.00	0.30	@	6	2.40	@	60	8	6	PS	526-8768-010	Navtex
500.00	5.50	@	4	12.00	@	63	5	10	LP	526-8558-010	
500.00	6.00	@	3	14.00	@	60	3	7	FP	526-8570-010	
518.00	0.30	@	3	6.00	@	70	8	6	PS	526-8708-010	Navtex
525.00	17.00	@	6	45.00	@	50	4	6	LP	526-8661-010	VHF Radio
540.00	2.00	@	3	12.00	@	50	6	4	FP	526-8567-010	
710.081	4.00	@	3	20.00	@	60	8	6	PS	526-8767-010	

## Lower and Upper Sideband Specifications

Carrier Frequency (kHz)	Filter Bandwidths (KHz)						Loss Max (dB)	Number of Resonators	Case Style	Part Number	Comments
	Min. BW	@	dB	Max. BW	@	dB					
Upper Sideband Filters											
448.71	2.85	@	3	4.40	@	60	4	12	LP	526-8603-010	Mil Std 188-141( Controlled Delay )
450.00	3.00	@	3	6.00	@	60	4	8	PS	526-8564-020	
455.00	1.90	@	3	6.25	@	60	6	7	FP	526-8510-010	
455.00	2.40	@	3	5.40	@	60	5	8	PS	526-8642-010	
455.00	2.30	@	3	6.00	@	60	5	8	LP	526-8642-020	
455.00	2.45	@	3	4.30	@	60	4	12	LP	526-8721-010	
455.00	2.52	@	1	4.30	@	60	4	12-B	LP	526-8588-010	Controlled Delay
455.00	2.60	@	1	4.80	@	60	4	12-B	LP	526-8522-010	TADIL-A Link-11
455.00	2.70	@	6	6.00	@	60	5	7	FP	526-8537-010	
455.00	2.80	@	3	4.30	@	40	4	12-B	LP	526-8588-020	
455.00	2.85	@	3	4.30	@	60	4	12	LP	526-8605-010	
456.50	2.20	@	6	5.00	@	60	3	8	PS	526-8679-010	Controlled Delay
500.00	2.85	@	3	4.80	@	60	4	11-B	LP	526-8568-010	
500.00	3.00	@	3	5.30	@	45	4	8	SM	526-8664-010	
Lower Sideband Filters											
200.00	2.70	@	3	5.00	@	60	4	10	PL	526-8757-010	
455.00	2.00	@	3	6.25	@	60	6	7	FP	526-8511-010	
455.00	2.40	@	3	5.40	@	60	5	8	LP	526-8643-020	
455.00	2.40	@	3	5.10	@	60	4	12	LP	526-8691-010	Controlled Delay
455.00	2.50	@	1	4.30	@	60	4	12-B	LP	526-8589-010	
455.00	2.50	@	3	5.20	@	60	5	8	PS	526-8643-010	
455.00	2.60	@	1	4.80	@	60	4	12-B	LP	526-8521-010	
455.00	2.70	@	6	5.94	@	60	5	7	FP	526-8536-010	TADII-A Link-11
455.00	2.80	@	3	4.30	@	40	4	12-B	LP	526-8589-020	
455.00	2.85	@	3	4.30	@	60	4	12	LP	526-8604-010	
455.00	4.21	@	3	6.45	@	60	5	12	LP	526-8607-010	
461.29	2.85	@	3	4.30	@	60	4	12	LP	526-8606-010	Mil Std 188-141 ( Controlled Delay )
500.00	2.19	@	6	4.60	@	60	4	9	LP	526-8557-010	
500.00	2.2	@	6	4.00	@	60	4	10	LP	526-8773-010	
500.00	2.36	@	3	4.27	@	60	4	12	LP	526-8559-010	
500.00	2.85	@	3	4.80	@	60	4	11-B	LP	526-8569-010	