

CCL & CoverLay

General Use Series

	Type	Item	Material & Thickness			Width	Length	Core Diameter	UL Certificate	
			PI Film	Copper	Adhesive					
	Coverlay	FD0515	12.5	-	15.0	249 or 500	100	3 inches	94V-0	
		FD0525	12.5	-	25.0	249 or 500	100	3 inches	94V-0	
		FD1025	25.0	-	25.0	249 or 500	100	3 inches	94V-0	
		FD1035	25.0	-	35.0	249 or 500	100	3 inches	94V-0	
		FD2035	50.0	-	35.0	249 or 500	100	3 inches	94V-0	
	Single Side FCCL	ED Copper	XSIE050313	12.5	11.5	13.0	250 or 500	100	3 inches	94V-0
			XSIE050513	12.5	17.5	13.0	250 or 500	100	3 inches	94V-0
			XSIE100313	25.0	11.5	13.0	250 or 500	100	3 inches	94V-0
			XSIE100513	25.0	17.5	13.0	250 or 500	100	3 inches	94V-0
			XSIE101020	25.0	35.0	20.0	250 or 500	100	3 inches	94V-0
			XSIE201020	50.0	35.0	20.0	250 or 500	100	3 inches	94V-0
		RA Copper	XSIR050313	12.5	11.5	13.0	250 or 500	100	3 inches	94V-0
			XSIR050513	12.5	17.5	13.0	250 or 500	100	3 inches	94V-0
			XSIR051013	12.5	35.0	13.0	250 or 500	100	3 inches	94V-0
			XSIR100313	25.0	11.5	13.0	250 or 500	100	3 inches	94V-0
			XSIR100513	25.0	17.5	13.0	250 or 500	100	3 inches	94V-0
			XSIR101020	25.0	35.0	20.0	250 or 500	100	3 inches	94V-0
	Double Side FCCL	ED Copper	NDIE050313	12.5	11.5	13.0	250 or 500	100	6 inches	94V-0
			NDIE050513	12.5	17.5	13.0	250 or 500	100	6 inches	94V-0
			NDIE100313	25.0	11.0	13.0	250 or 500	100	6 inches	94V-0
			NDIE100513	25.0	17.5	13.0	250 or 500	100	6 inches	94V-0
			NDIE101020	25.0	35.0	20.0	250 or 500	50	6 inches	94V-0
			NDIE200520	50.0	17.5	20.0	250 or 500	100	6 inches	94V-0
		RA Copper	NDIR050313	12.5	11.5	13.0	250 or 500	100	6 inches	94V-0
			NDIR050513	12.5	17.5	13.0	250 or 500	100	6 inches	94V-0
			NDIR100313	25.0	11.5	13.0	250 or 500	100	6 inches	94V-0
			NDIR100513	25.0	17.5	13.0	250 or 500	100	6 inches	94V-0
			NDIR101020	25.0	35.0	20.0	250 or 500	50	6 inches	94V-0
				B/S	BS10	-	-	10.0	249 or 500	100
BS25	-	-			25.0	249 or 500	100	3 inches	VTM-2	
BS40	-	-			40.0	249 or 500	100	3 inches	VTM-2	
	Stiffener	FR2025	50.0	-	25.0	250 or 500	100	3 inches	VTM-2	
		FR3025	75.0	-	25.0	250 or 500	100	3 inches	VTM-2	
		FR4025	100.0	-	25.0	250 or 500	100	3 inches	VTM-2	
		FR5025	125.0	-	25.0	250 or 500	50	6 inches	VTM-2	
		FR7025	175.0	-	25.0	250 or 500	50	6 inches	VTM-2	
		FR8025	200.0	-	25.0	250 or 500	50	6 inches	VTM-2	
		FR9025	225.0	-	25.0	250 or 500	50	6 inches	VTM-2	
	Composite Film	MIA3025	75.0	-	-	250 or 500	100	3 inches	VTM-2	
		MIA4025	100.0	-	-	250 or 500	100	3 inches	VTM-2	
		MIA5025	125.0	-	-	250 or 500	50	6 inches	VTM-2	
		MIA7025	175.0	-	-	250 or 500	50	6 inches	VTM-2	
		MIA8025	200.0	-	-	250 or 500	50	6 inches	VTM-2	
		MIA9025	225.0	-	-	250 or 500	50	6 inches	VTM-2	



CCL & CoverLay

Halogen Free Series

	Type	Item	Material & Thickness			Width	Length	Core Diameter	UL Certificate	
			PI Film	Copper	Adhesive					
	Coverlay	FHK0515	12.5	-	15.0	249 or 500	100	3 inches	94V-0	
		FHK0525	12.5	-	25.0	249 or 500	100	3 inches	94V-0	
		FHK1025	25.0	-	25.0	249 or 500	100	3 inches	94V-0	
		FHK1035	25.0	-	35.0	249 or 500	100	3 inches	94V-0	
		FHA0515	12.5	-	15.0	249 or 500	100	3 inches	94V-0	
		FHA0525	12.5	-	25.0	249 or 500	100	3 inches	94V-0	
		FHA1025	25.0	-	25.0	249 or 500	100	3 inches	94V-0	
		FHA1035	25.0	-	35.0	249 or 500	100	3 inches	94V-0	
	Single Side FCCL	ED Copper	THKS050313W2	12.5	11.5	13.0	250 or 500	100	3 inches	94V-0
			THKS050513WP	12.5	17.5	13.0	250 or 500	100	3 inches	94V-0
			THKS100313W2	25.0	11.5	13.0	250 or 500	100	3 inches	94V-0
			THKS100520WP	25.0	17.5	20.0	250 or 500	100	3 inches	94V-0
			THKS101020WP	25.0	35.0	20.0	250 or 500	100	3 inches	94V-0
			THKS201020WP	50.0	35.0	20.0	250 or 500	100	3 inches	94V-0
		RA Copper	THKS050313JY	12.5	11.5	13.0	250 or 500	100	3 inches	94V-0
			THKS050513JY	12.5	17.5	13.0	250 or 500	100	3 inches	94V-0
			THKS051013JY	12.5	35.0	13.0	250 or 500	100	3 inches	94V-0
			THKS100313JY	25.0	11.5	13.0	250 or 500	100	3 inches	94V-0
			THKS100520JY	25.0	17.5	20.0	250 or 500	100	3 inches	94V-0
			THKS101020JY	25.0	35.0	20.0	250 or 500	100	3 inches	94V-0
	Double Side FCCL	ED Copper	THAD050313W2	12.5	11.5	13.0	250 or 500	100	6 inches	94V-0
			THAD050513WP	12.5	17.5	13.0	250 or 500	100	6 inches	94V-0
			THAD100313W2	25.0	11.0	13.0	250 or 500	100	6 inches	94V-0
			THAD100520WP	25.0	17.5	20.0	250 or 500	100	6 inches	94V-0
			THAD101020WP	25.0	35.0	20.0	250 or 500	50	6 inches	94V-0
		RA Copper	THAD050313JY	12.5	11.5	13.0	250 or 500	100	6 inches	94V-0
			THAD050513JY	12.5	17.5	13.0	250 or 500	100	6 inches	94V-0
			THAD100313JY	25.0	11.5	13.0	250 or 500	100	6 inches	94V-0
			THAD100513JA	25.0	17.5	13.0	250 or 500	100	6 inches	94V-0
			THAD100520JA	25.0	17.5	20.0	250 or 500	100	6 inches	94V-0
			THAD101020JY	25.0	35.0	20.0	250 or 500	50	6 inches	94V-0
			THAD200520JY	50.0	17.5	20.0	250 or 500	100	6 inches	94V-0
	B/S	BH10	-	-	10.0	249 or 500	100	3 inches	VTM-2	
		BH25	-	-	25.0	249 or 500	100	3 inches	VTM-2	
		BH40	-	-	40.0	249 or 500	100	3 inches	VTM-2	
			Stiffener	RHK2025	50.0	-	25.0	250 or 500	100	3 inches
RHK3025	75.0			-	25.0	250 or 500	100	3 inches	VTM-2	
RHK4025	100.0			-	25.0	250 or 500	100	3 inches	VTM-2	
RHK5025	125.0			-	25.0	250 or 500	50	6 inches	VTM-2	
RHK7025	175.0			-	25.0	250 or 500	50	6 inches	VTM-2	
RHK8025	200.0			-	25.0	250 or 500	50	6 inches	VTM-2	
RHK9025	225.0			-	25.0	250 or 500	50	6 inches	VTM-2	
	Composite Film	MHK3025	75.0	-	-	250 or 500	100	3 inches	VTM-2	
		MHK4025	100.0	-	-	250 or 500	100	3 inches	VTM-2	
		MHK5025	125.0	-	-	250 or 500	50	6 inches	VTM-2	
		MHK7025	175.0	-	-	250 or 500	50	6 inches	VTM-2	
		MHK8025	200.0	-	-	250 or 500	50	6 inches	VTM-2	
		MHK9025	225.0	-	-	250 or 500	50	6 inches	VTM-2	

CCL & CoverLay

Adhesiveless 2Layer Series

	Type	Item	Material & Thickness			Width	Length	Core Diameter	UL Certificate
			Film	Copper	Adhesive				
	ED Copper	2LPSE0503	12.5	11.5	-	250 or 500	100	3 inches	94V-0
		2LPSE0505	12.5	17.5	-	250 or 500	100	3 inches	94V-0
		2LPSE0803	20.0	11.5	-	250 or 500	100	3 inches	94V-0
		2LPSE0805	20.0	17.5	-	250 or 500	100	3 inches	94V-0
		2LPSE1003	25.0	11.5	-	250 or 500	100	3 inches	94V-0
		2LPSE1005	25.0	17.5	-	250 or 500	100	3 inches	94V-0
		2LPSE1010	25.0	35.0	-	250 or 500	100	3 inches	94V-0
	RA Copper	2LPSR0503	12.5	11.5	-	250 or 500	100	3 inches	94V-0
		2LPSR0505	12.5	17.5	-	250 or 500	100	3 inches	94V-0
		2LPSR0803	20.0	11.5	-	250 or 500	100	3 inches	94V-0
		2LPSR0805	20.0	17.5	-	250 or 500	100	3 inches	94V-0
		2LPSR1003	25.0	11.5	-	250 or 500	100	3 inches	94V-0
		2LPSR1005	25.0	17.5	-	250 or 500	100	3 inches	94V-0
		2LPSR1010	25.0	35.0	-	250 or 500	100	3 inches	94V-0

PEN Series

	Type	Item	Material & Thickness			Width	Length	Core Diameter	UL Certificate
			Film	Copper	Adhesive				
	Coverlay	FPQ1035	25.0	-	35.0	249	100	3 inches	VTM-2
		FPQ1050	25.0	-	50.0	249	100	3 inches	VTM-2
		FPQ2035	50.0	-	35.0	249	100	3 inches	VTM-2
		FPQ2050	50.0	-	50.0	249	100	3 inches	VTM-2
	Single Side FCCL	TPQS100520	25.0	17.5	20.0	250	100	3 inches	VTM-2
		TPQS101020	25.0	35.0	20.0	250	100	3 inches	VTM-2
		TPQS200520	50.0	17.5	20.0	250	100	3 inches	VTM-2
		TPQS201020	50.0	35.0	20.0	250	100	3 inches	VTM-2
		TPQS300520	75.0	17.5	20.0	250	100	3 inches	VTM-2
		TPQS301020	75.0	35.0	20.0	250	100	3 inches	VTM-2
	Double Side FCCL	TPQD100520	25.0	17.5	20.0	250	100	6 inches	VTM-2
		TPQD101020	25.0	35.0	20.0	250	50	6 inches	VTM-2
		TPQD200520	50.0	17.5	20.0	250	100	6 inches	VTM-2
		TPQD201020	50.0	35.0	20.0	250	50	6 inches	VTM-2
		TPQD300520	75.0	17.5	20.0	250	100	6 inches	VTM-2
		TPQD301020	75.0	35.0	20.0	250	50	6 inches	VTM-2

High MIT/IPC & Low Ionic Migration Series

	Type		Item	Material & Thickness			Width	Length	Core Diameter	UL Certificate
				Film	Copper	Adhesive				
	Coverlay		FI0515	12.5	-	15.0	249 or 500	100	3 inches	94V-0
			FI0525	12.5	-	25.0	249 or 500	100	3 inches	94V-0
			FI1025	25.0	-	25.0	249 or 500	100	3 inches	94V-0
	Single Side FCCL	ED Copper	ISIE050313	12.5	11.5	13.0	250 or 500	100	3 inches	94V-0
			ISIE050513	12.5	17.5	13.0	250 or 500	100	3 inches	94V-0
			ISIE100313	25.0	11.5	13.0	250 or 500	100	3 inches	94V-0
			ISIE100513	25.0	17.5	13.0	250 or 500	100	3 inches	94V-0
			ISIE101020	25.0	35.0	20.0	250 or 500	100	3 inches	94V-0
			ISIE200520	50.0	17.5	20.0	250 or 500	100	3 inches	94V-0
		RA Copper	ISIR050313	12.5	11.5	13.0	250 or 500	100	3 inches	94V-0
			ISIR050513	12.5	17.5	13.0	250 or 500	100	3 inches	94V-0
			ISIR051013	12.5	35.0	13.0	250 or 500	100	3 inches	94V-0
			ISIR100313	25.0	11.5	13.0	250 or 500	100	3 inches	94V-0
			ISIR100513	25.0	17.5	13.0	250 or 500	100	3 inches	94V-0
	Double Side FCCL	ED Copper	IDIE050313	12.5	11.5	13.0	250 or 500	100	6 inches	94V-0
			IDIE050513	12.5	17.5	13.0	250 or 500	100	6 inches	94V-0
			IDIE100513	25.0	17.5	13.0	250 or 500	100	6 inches	94V-0
			IDIE101020	25.0	35.0	20.0	250 or 500	50	6 inches	94V-0
			IDIE200520	50.0	17.5	20.0	250 or 500	100	6 inches	94V-0
		RA Copper	IDIR050313	12.5	11.5	13.0	250 or 500	100	6 inches	94V-0
			IDIR050513	12.5	17.5	13.0	250 or 500	100	6 inches	94V-0
			IDIR100313	25.0	11.5	13.0	250 or 500	100	6 inches	94V-0
			IDIR100513	25.0	17.5	13.0	250 or 500	100	6 inches	94V-0