

Material Composition Declaration

Film Metallized Polypropylene Capacitors , High Current, AC Voltage, Pulse, PFC

Remarks:

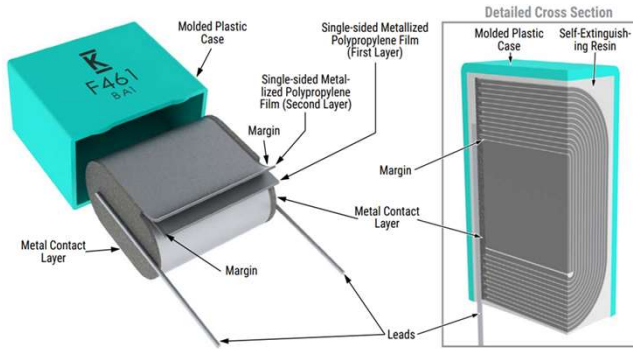
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Material Declaration Radial Plastic Film Capacitor

F461 Series Single Metallized Polypropylene Film



Construction



Voltage Range : 160– 630 VDC

Capacitance Range : 0.0015 – 56 μ F

Lead Spacing : 5 -37.5 mm

Environmental Compliance

Pb Free	YES
RoHS Compliant	YES
Halogen Free	YES

https://content.kemet.com/datasheets/KEM_F3028_F461-464.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized MKP Film	Polypropylene	see Annex 1	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Zinc		Zn	7440-66-6
		Copper (*)		Cu	7440-50-8
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Halogen free plastic case	Polybutylene terephthalate		PBT	26062-94-2
		Glass Fiber		GF	65997-17-3
		Organic phosphorous compound FR		-	-
		Tetrahydrofuran		-	109-99-9
Termination	Core Metal	Iron (*)	Fe	7439-89-6	
	Core Metal	Nickel (*)	Ni	7440-02-0	
	Core Metal	Zinc (*)	Zn	7440-66-6	
	Core Metal	Copper	Cu	7440-50-8	
	Finish plating	Tin	Sn	7440-31-5	

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 1

Material Declaration Radial Plastic Film Capacitor F461 Series Single Metallized Polypropylene Film



Pitch mm				5	7,5	10	15	22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.1uF Box dimension 7.2x13x7.2 mm	MAXIMUM size Cap 0.15uF Box dimension 6x12x10.5 mm	MAXIMUM size Cap 0.047uF Box dimension 6x12x13 mm	MAXIMUM size Cap 0.27uF Box dimension 11x19x18 mm	MAXIMUM size Cap 0.39uF Box dimension 15.5x24.5x26 mm	MAXIMUM size Cap 18uF Box dimension 22x37x31.5 mm	MAXIMUM size Cap 47uF Box dimension 30x45x41 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,156	0,179	0,216	1,038	3,363	9,088	22,693
	Metal	Al	7429-90-5	0,005	0,004	0,004	0,013	0,027	0,233	0,370
	Metal	Sn	7440-31-5	0,034	0,027	0,024	0,085	0,182	0,847	0,842
	Metal	Zn	7440-66-6	0,097	0,077	0,068	0,243	0,518	1,808	1,796
	Metal	Cu (*)	7440-50-8	-	-	-	-	-	0,028	0,028
Homogeneous Level Weight				0,293	0,287	0,311	1,380	4,091	12,004	25,729
Encapsulation	Thermosetting Resin	EP	-	0,371	0,372	0,503	2,143	5,071	11,298	20,115
	Halogen free plastic case	PBT	26062-94-2	0,188	0,265	0,305	0,868	1,986	3,970	6,576
		GF	65997-17-3	0,035	0,050	0,057	0,163	0,372	0,992	1,644
		Organic phosphorous compound FR	-	0,011	0,015	0,017	0,049	0,112	-	-
		Tetrahydrofuran	109-99-9	0,001	0,002	0,002	0,005	0,012	-	-
Homogeneous Level Weight				0,605	0,703	0,884	3,228	7,553	16,260	28,335
Termination	Core Metal	Fe (*)	7439-89-6	-	0,124	0,123	-	-	-	-
	Core Metal	Ni (*)	7440-02-0	0,020	-	-	-	-	0,001	0,004
	Core Metal	Zn (*)	7440-66-6	0,022	-	-	-	-	-	-
	Core Metal	Cu	7440-50-8	0,068	0,033	0,033	0,362	0,476	0,231	0,923
	Finish plating	Sn	7440-31-5	0,003	0,006	0,006	0,010	0,013	0,003	0,009
Homogeneous Level Weight				0,112	0,164	0,162	0,371	0,489	0,235	0,936
Total Weight				1,011	1,155	1,358	4,979	12,132	28,500	55,000

(*) version available for some PNs

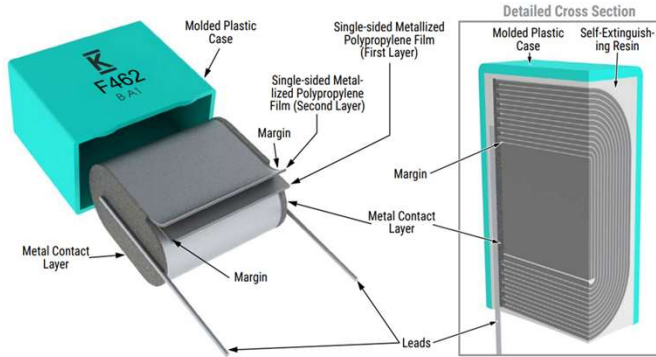
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Material Declaration Radial Plastic Film Capacitor

F462 Series Single Metallized Polypropylene Film



Construction



https://content.kemet.com/datasheets/KEM_F3028_F461-464.pdf

Voltage Range : 1000– 1600 VDC
Capacitance Range : 0.001 – 3.9 μ F
Lead Spacing : 10 -37.5 mm

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	YES

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized MKP Film	Polypropylene	see Annex 2	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Zinc		Zn	7440-66-6
		Copper (*)		Cu	7440-50-8
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Halogen free plastic case	Polybutylene terephthalate		PBT	26062-94-2
		Glass Fiber		GF	65997-17-3
		Organic phosphorous compound FR		-	-
		Tetrahydrofuran		-	109-99-9
Termination	Core Metal	Iron (*)	Fe	7439-89-6	
	Core Metal	Nickel (*)	Ni	7440-02-0	
	Core Metal	Copper	Cu	7440-50-8	
	Finish plating	Tin	Sn	7440-31-5	

(*) version available for some PNs

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Annex 2

Material Declaration Radial Plastic Film Capacitor F462 Series Single Metallized Polypropylene Film



Pitch mm				10	15	22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.0056uF Box dimension 6x12x13 mm	MAXIMUM size Cap 0.039uF Box dimension 11x19x18 mm	MAXIMUM size Cap 0.27uF Box dimension 15.5x24.5x26 mm	MAXIMUM size Cap 18uF Box dimension 22x37x31.5 mm	MAXIMUM size Cap 47uF Box dimension 30x45x41 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,280	1,084	3,179	7,690	24,082
	Metal	Al	7429-90-5	0,005	0,013	0,026	0,219	0,384
	Metal	Sn	7440-31-5	0,031	0,089	0,173	0,847	0,842
	Metal	Zn	7440-66-6	0,088	0,254	0,492	1,808	1,796
	Metal	Cu (*)	7440-50-8	-	-	-	0,028	0,028
Homogeneous Level Weight				0,403	1,441	3,871	10,592	27,132
Encapsulation	Thermosetting Resin	EP	-	0,383	2,073	5,457	12,711	18,712
	Halogen free plastic case	PBT	26062-94-2	0,305	0,868	1,986	3,970	6,576
		GF	65997-17-3	0,057	0,163	0,372	0,992	1,644
		Organic phosphorous compound FR	-	0,017	0,049	0,112	-	-
		Tetrahydrofuran	109-99-9	0,002	0,005	0,012	-	-
Homogeneous Level Weight				0,764	3,158	7,939	17,673	26,932
Termination	Core Metal	Fe (*)	7439-89-6	0,134	-	-	-	-
	Core Metal	Ni (*)	7440-02-0	-	-	-	0,001	0,004
	Core Metal	Cu	7440-50-8	0,036	0,366	0,469	0,231	0,923
	Finish plating	Sn	7440-31-5	0,007	0,010	0,013	0,003	0,009
Homogeneous Level Weight				0,176	0,376	0,482	0,235	0,936
Total Weight				1,343	4,974	12,291	28,500	55,000

(*) version available for some PNs

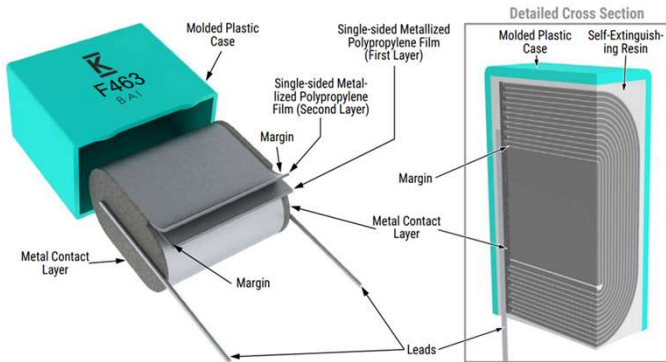
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Material Declaration Radial Plastic Film Capacitor

F463 Series Single Metallized Polypropylene Film



Construction



Voltage Range : 1250– 2000 VDC

Capacitance Range : 0.001 – 2.2 µF

Lead Spacing : 10 -37.5 mm

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	YES

https://content.kemet.com/datasheets/KEM_F3028_F461-464.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized MKP Film	Polypropylene	see Annex 3	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Zinc		Zn	7440-66-6
		Copper (*)		Cu	7440-50-8
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Halogen free plastic case	Polybutylene terephthalate		PBT	26062-94-2
		Glass Fiber		GF	65997-17-3
		Organic phosphorous compound FR		-	-
		Tetrahydrofuran		-	109-99-9
Termination	Core Metal	Iron (*)	Fe	7439-89-6	
	Core Metal	Nickel (*)	Ni	7440-02-0	
	Core Metal	Copper	Cu	7440-50-8	
	Finish plating	Tin	Sn	7440-31-5	

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Annex 3

Material Declaration Radial Plastic Film Capacitor F463 Series Single Metallized Polypropylene Film



Pitch mm				10	15	22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.0056uF Box dimension 6x12x13 mm	MAXIMUM size Cap 0.018uF Box dimension 11x19x18 mm	MAXIMUM size Cap 0.15uF Box dimension 15.5x24.5x26 mm	MAXIMUM size Cap 0.68uF Box dimension 22x37x31.5 mm	MAXIMUM size Cap 1.8uF Box dimension 30x45x41 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,307	1,115	3,564	9,554	22,230
	Metal	Al	7429-90-5	0,005	0,014	0,029	0,238	0,365
	Metal	Sn	7440-31-5	0,034	0,092	0,194	0,847	0,842
	Metal	Zn	7440-66-6	0,096	0,261	0,551	1,808	1,796
	Metal	Cu (*)	7440-50-8	-	-	-	0,028	0,028
Homogeneous Level Weight				0,442	1,482	4,338	12,475	25,261
Encapsulation	Thermosetting Resin	Epoxy Resin	-	0,318	1,985	4,573	10,827	20,583
	Halogen free plastic case	PBT	26062-94-2	0,305	0,868	1,986	3,970	6,576
		GF	65997-17-3	0,057	0,163	0,372	0,992	1,644
		Organic phosphorous compound FR	-	0,017	0,049	0,112	-	-
		Tetrahydrofuran	109-99-9	0,002	0,005	0,012	-	-
Homogeneous Level Weight				0,700	3,071	7,055	15,789	28,803
Termination	Core Metal	Fe (*)	7439-89-6	0,129	-	-	-	-
	Core Metal	Ni (*)	7440-02-0	-	-	-	0,001	0,004
	Core Metal	Cu	7440-50-8	0,035	0,368	0,476	0,231	0,923
	Finish plating	Sn	7440-31-5	0,006	0,010	0,013	0,003	0,009
Homogeneous Level Weight				0,170	0,378	0,489	0,235	0,936
Total Weight				1,311	4,931	11,882	28,500	55,000

(*) version available for some PNs

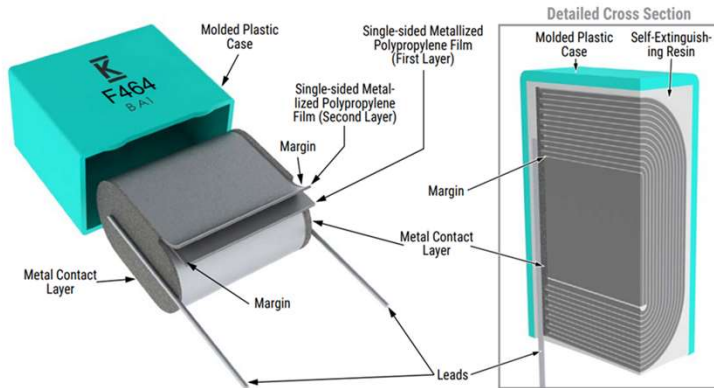
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Material Declaration Radial Plastic Film Capacitor

F464 Series [Single Metallized Polypropylene Film](#)



Construction



https://content.kemet.com/datasheets/KEM_F3028_F461-464.pdf

Voltage Range : 2500 VDC
Capacitance Range : 0.001 – 0.56 μ F
Lead Spacing : 10 -37.5 mm

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	YES

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized MKP Film	Polypropylene	see Annex 4	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Zinc		Zn	7440-66-6
		Copper (*)		Cu	7440-50-8
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Halogen free plastic case	Polybutylene terephthalate		PBT	26062-94-2
		Glass Fiber		GF	65997-17-3
		Organic phosphorous compound FR		-	-
		Tetrahydrofuran		-	109-99-9
Termination	Core Metal	Iron (*)	Fe	7439-89-6	
	Core Metal	Copper	Cu	7440-50-8	
	Finish plating	Tin	Sn	7440-31-5	

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Annex 4

Material Declaration Radial Plastic Film Capacitor F464 Series Single Metallized Polypropylene Film



Pitch mm				15	22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.018uF Box dimension 11x19x18 mm	MAXIMUM size Cap 0.039uF Box dimension 15.5x24.5x26 mm	MAXIMUM size Cap 0.15uF Box dimension 22x37x31.5 mm	MAXIMUM size Cap 0.56uF Box dimension 30x45x41 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	1,258	3,031	9,088	28,250
	Metal	Al	7429-90-5	0,015	0,025	0,233	0,426
	Metal	Sn	7440-31-5	0,103	0,165	0,847	0,842
	Metal	Zn	7440-66-6	0,293	0,470	1,808	1,796
	Metal	Cu (*)	7440-50-8	-	-	0,028	0,028
Homogeneous Level Weight				1,670	3,691	12,004	31,343
Encapsulation	Thermosetting Resin	Epoxy Resin	-	2,483	5,707	11,298	14,502
	Halogen free plastic case	PBT	26062-94-2	0,616	1,986	3,970	6,576
		GF	65997-17-3	0,116	0,372	0,992	1,644
		Organic phosphorous compound FR	-	0,035	0,112	-	-
	Tetrahydrofuran	109-99-9	0,004	0,012	-	-	
Homogeneous Level Weight				3,253	8,189	16,260	22,722
	Core Metal	Ni (*)	7440-02-0	-	-	0,001	0,004
	Core Metal	Cu	7440-50-8	0,398	0,454	0,231	0,923
	Finish plating	Sn	7440-31-5	0,035	0,012	0,003	0,009
Homogeneous Level Weight				0,432	0,466	0,235	0,936
Total Weight				5,355	12,346	28,500	55,000

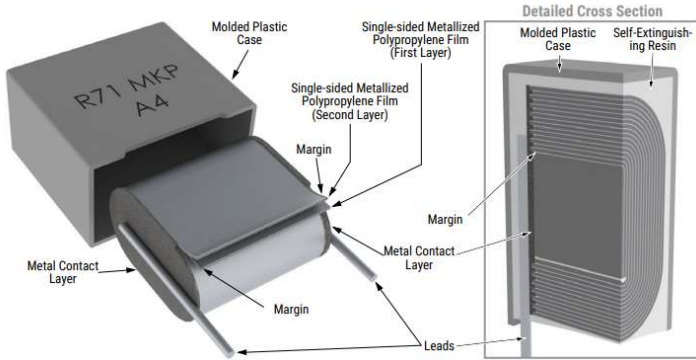
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Material Declaration Radial Plastic Film Capacitor

R71 Series Single Metallized Polypropylene Film, Optimized for SMPS PFC Applications

Construction



Voltage Range : 420-1000 VDC

Capacitance Range : 0.01 – 22 μ F

Size range: 4x9x13 --30x45x41,5

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3030_R71.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #	
Element	Metallized PP Film	Polypropylene	see Annex 5	PP	9003-07-0	
		Zinc		Zn	7440-66-6	
	Metal End Spray	Tin		Sn	7440-31-5	
		Zinc		Zn	7440-66-6	
	Thermosetting Resin	Modified cured EP		Copper (*)	Cu	7440-50-8
				Epoxy resin	-	
Thermosetting Resin (*)	Modified cured PU (*)	Polyurethane resin		-		
Encapsulation	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2	
		Antimony trioxide		Sb2O3	1309-64-4	
		Halogenated Flame Ret. except for PBB and PBDE		-	-	
		Glass Fiber		GF	65997-17-3	
		Further Additives		-	-	
		Copper		Cu-ETP	7440-50-8	
Termination	CP Wire (*)	Iron		Fe	7439-89-6	
		Tin	EP-Sn	7440-31-5		
		Copper	Cu-ETP	7440-50-8		
	Core Metal	Copper	Cu-ETP	7440-50-8		
	Finish plating	Tin	EP-Sn	7440-31-5		

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Annex 5



Material Declaration Radial Plastic Film Capacitor

R71 Series Single Metallized Polypropylene Film, Optimized for SMPS PFC Applications

Pitch mm				10		15		22,5	27.5	37.5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.22uF Box dimension 6x12x13 mm		MAXIMUM size Cap 1.5uF Box dimension 11x19x18 mm		MAXIMUM size Cap 3.3uF Box dimension 13x22x26,5 mm	MAXIMUM size Cap 6.8uF Box dimension 22x37x32 mm	MAXIMUM size Cap 22uF Box dimension 30x45x41,5 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,301	0,301	1,533	1,533	3,151	8,940	28,140
	Metal	Zn	7440-66-6	0,171	0,171	0,657	0,657	0,818	1,569	3,563
	Metal	Sn	7440-31-5	0,019	0,019	0,073	0,073	0,091	0,216	0,492
	Metal	Cu (*)	7440-50-8	0,001	/	0,003	/	0,007	0,017	0,038
Homogeneous Level Weight				0,491	0,490	2,266	2,263	4,066	10,742	32,233
Encapsulation	Thermosetting Resin	Epoxy Resin	-	/	0,592	/	2,348	4,266	/	
		Polyurethane Resin (*)	-	0,592	/	2,348	/	4,266	8,590	37,840
	Case	PBT	26062-94-2	0,344	0,266	1,090	0,868	1,638	4,200	7,350
		Sb2O3	1309-64-4	0,018	0,027	0,060	0,087	0,164	0,420	0,735
		Halogenated Flame Ret. except for PBB and PBDE	-	0,018	0,027	0,060	0,087	0,164	0,420	0,735
		GF	65997-17-3	/	0,057	/	0,186	0,351	0,900	1,575
		Further Additives	-	/	0,004	/	0,012	0,023	0,060	0,105
Homogeneous Level Weight				0,972	0,972	3,558	3,588	6,606	14,590	48,340
Termination	Wire	Cu (*)	7440-50-8	/	0,022	/	0,031	/	/	/
		Sn (*)	7440-31-5	/	0,013	/	0,065	/	/	/
		Fe (*)	7439-89-6	/	0,104	/	0,288	/	/	/
		Cu	7440-50-8	0,135		0,373		0,366	0,308	0,396
		Sn	7440-31-5	0,004		0,012		0,050	0,042	0,054
Homogeneous Level Weight				0,139	0,139	0,384	0,384	0,416	0,350	0,450
Total Weight				1,60	1,60	6,21	6,24	11,09	25,68	81,02

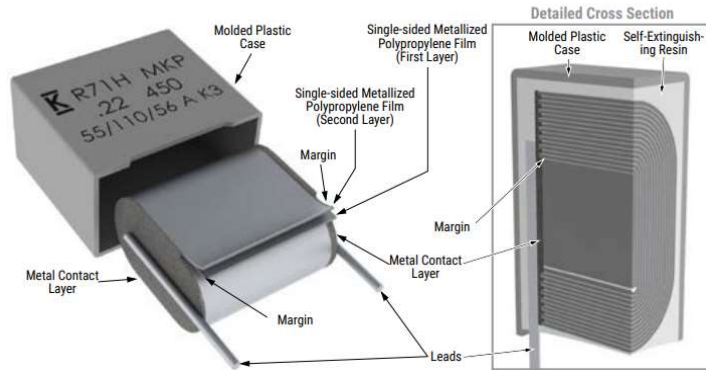
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Material Declaration Radial Plastic Film Capacitor

R71-H Series 125°C PFC Film Radial Capacitor

Construction



https://content.kemet.com/datasheets/KEM_F3130_R71H.pdf

Voltage Range : 450-630 VDC

Capacitance Range : 0.033 – 22 µF

Size range: 4x9x13 --22x37x32

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 6	PP	9003-07-0
		Aluminium (*)		Al	7429-90-5
		Zinc		Zn	7440-66-6
	Metal Spray	Tin		Sn	7440-31-5
Zinc		Zn		7440-66-6	
Encapsulation	Thermosetting Resin	Epoxy		EP	-
		Additives		-	-
		Aluminium Hydroxide		Al2O3	21645-51-2
	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE	-	-	
		Glass Fiber	GF	65997-17-3	
Further Additives	-	-			
Termination	Core Metal	Copper	Cu-ETP	7440-50-8	
	Core Metal	Iron (*)	Fe	7439-89-6	
	Finish plating	Tin	EP-Sn	7440-31-5	

(*) version available for some PNs

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Annex 6

Material Declaration Radial Plastic Film Capacitor

R71-H Series 125°C PFC Film Radial Capacitor



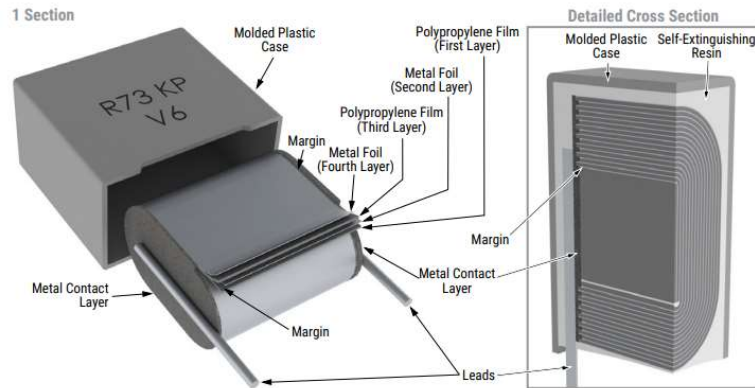
Pitch mm				10	15	22,5	27.5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.47uF Box dimension 6x12x13 mm	MAXIMUM size Cap 2.2uF Box dimension 11x19x18 mm	MAXIMUM size Cap 4.7uF Box dimension 13x22x26,5 mm	MAXIMUM size Cap 22uF Box dimension 22x37x32 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,331	1,441	3,004	13,261
	Metal	Al	7429-90-5	0,000	0,001	0,001	0,006
	Metal	Zn	7440-66-6	0,213	0,222	0,236	0,324
	Metal	Sn	7440-31-5	0,023	0,063	0,108	0,332
Homogeneous Level Weight				0,567	1,739	3,376	14,037
Encapsulation	Thermosetting Resin	Epoxy	-	0,313	1,440	2,562	7,625
		Additives	-	0,005	0,024	0,042	0,126
		Aluminium Hydroxide	21645-51-2	0,199	0,916	1,630	4,852
	Plastic Case	PBT	26062-94-2	0,266	0,868	1,638	4,410
		Sb2O3	1309-64-4	0,027	0,087	0,164	0,441
		Halogenated Flame Ret. except for PBB and PBDE	-	0,027	0,087	0,164	0,441
		GF	65997-17-3	0,057	0,186	0,351	0,945
		Further Additives	-	0,004	0,012	0,023	0,063
Homogeneous Level Weight				0,898	3,620	6,575	18,903
Termination	Core Metal	Cu-ETP	7440-50-8	0,021	0,272	0,284	0,362
	Finish plating	EP-Sn	7440-31-5	0,013	0,024	0,025	0,032
	Core Metal	Fe (*)	7439-89-6	0,101	/	/	/
Homogeneous Level Weight				0,135	0,296	0,310	0,394
Total Weight				1,600	5,656	10,260	33,334

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R73 Series Polypropylene Film/Foil, Radial (Automotive Grade up to 22.5 mm Pitch)



Voltage Range : 100-2000 VDC

Capacitance Range : 0.0001 – 2.2 μ F

Size range: 5x11x18 --30x45x41,5

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3037_R73.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 7	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal End Spray	Tin		Sn	7440-31-5
		Copper		Cu	7440-50-8
		Aluminium		Al	7429-90-5
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Modified cured PU		Polyurethane resin	-
	Plastic Case	Polybutylene terephthalate		PBT	24968-12-5
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	-
		Glass Fiber (*)	GF	65997-17-3	
		Further Additives (*)	-	-	
Termination	Wire	Copper	Cu-ETP	7440-50-8	
		Tin	EP-Sn	7440-31-5	

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 7



Material Declaration Radial Plastic Film Capacitor

R73 Series Polypropylene Film/Foil, Radial (Automotive Grade up to 22.5 mm Pitch)

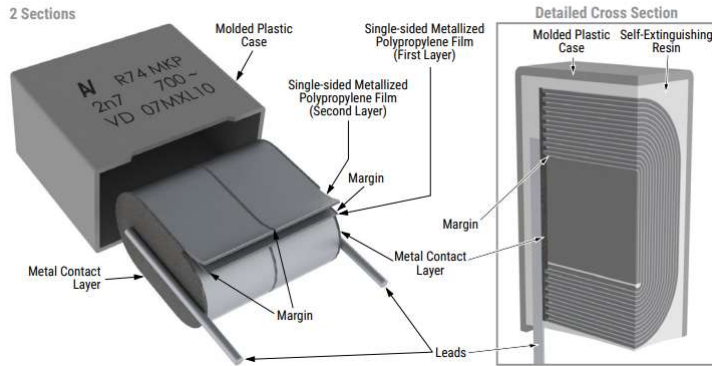
Pitch mm				15	22,5	27.5	37.5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.15uF Box dimension 10x16x18 mm	MAXIMUM size Cap 0.068uF Box dimension 11x20x26,5 mm	MAXIMUM size Cap 0.82uF Box dimension 22x37x32 mm	MAXIMUM size Cap 1.5uF Box dimension 30x45x41,5 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Film Element	Metallized film	PP	9003-07-0	0,419	1,416	6,820	20,540
	Metal	Al	7429-90-5	3,245	1,322	9,710	20,416
	Metal	Zn	7440-66-6	0,168	0,257	0,954	2,975
	Metal	Sn	7440-31-5	0,158	0,081	0,167	0,491
	Metal	Cu	7440-50-8	0,005	0,006	0,013	0,038
Homogeneous Level Weight				3,995	3,082	17,664	44,460
Encapsulation	Thermosetting Resin	Polyurethane resin	-	1,230	2,119	4,789	35,440
	Plastic Case	PBT	24968-12-5	0,900	1,260	4,200	7,350
		Sb2O3	1309-64-4	0,050	0,126	0,420	0,735
		Halogenated Flame Ret. except for PBB and PBDE	-	0,050	0,126	0,420	0,735
		GF	65997-17-3	/	0,270	0,900	1,575
		Further Additives (*)	-	/	0,018	0,060	0,105
Homogeneous Level Weight				2,230	3,919	10,789	45,940
Termination	Wire	Cu	7440-50-8	0,353	0,344	0,308	0,396
		Sn	7440-31-5	0,011	0,047	0,042	0,054
Homogeneous Level Weight				0,364	0,391	0,350	0,450
Total Weight				6,59	7,39	28,80	90,85

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R74 Series [Single Metallized Polypropylene Film, AC Applications \(Automotive Grade up to 22.5 mm Pitch\)](#)



Voltage Range : 250-900 VAC

Capacitance Range : 470pF – 3.3 µF

Size range: 4x9x13 --30x45x41,5

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3104_R74.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 8	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal End Spray	Tin		Sn	7440-31-5
		Aluminium (*)		Al	7429-90-5
		Copper (*)		Cu	7440-50-8
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Thermosetting Resin (*)	Modified cured PU (*)		Polyurethane resin	-
	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	-
		Glass Fiber (*)		GF	65997-17-3
		Further Additives (*)	-	-	
Termination	Wire	Copper	Cu-ETP	7440-50-8	
		Iron (*)	Fe	7439-89-6	
		Tin	EP-Sn	7440-31-5	

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 8

Material Declaration Radial Plastic Film Capacitor



R74 Series [Single Metallized Polypropylene Film, AC Applications \(Automotive Grade up to 22.5 mm Pitch\)](#)

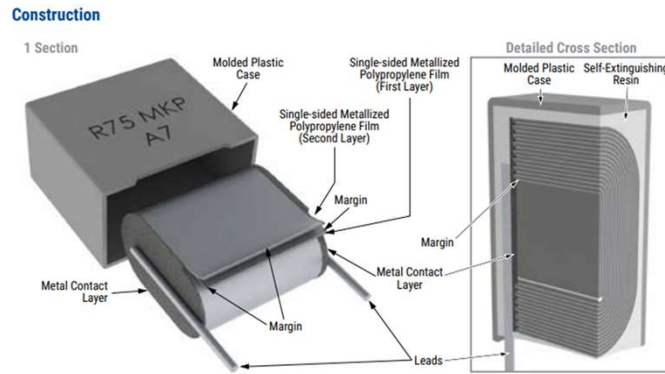
Pitch mm				10		15		22,5	27.5	37.5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.022uF Box dimension 6x12x13 mm		MAXIMUM size Cap 0.15uF Box dimension 11x19x18 mm		MAXIMUM size Cap 0.15uF Box dimension 13x22x26,5 mm	MAXIMUM size Cap 1uF Box dimension 22x37x32 mm	MAXIMUM size Cap 3.3uF Box dimension 30x45x41,5 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Film Element	Metallized Film	PP	9003-07-0	0,242	0,242	1,425	1,425	2,845	10,667	26,680
	Metal	Al	7429-90-5	0,006	0,002	0,026	0,014	0,135	0,239	0,231
	Metal	Zn	7440-66-6	0,184	0,184	0,497	0,497	0,869	2,990	2,740
	Metal	Sn	7440-31-5	0,020	0,020	0,055	0,055	0,097	0,332	0,424
	Metal	Cu (*)	7440-50-8	0,001	/	0,003	/	0,005	0,059	0,033
Homogeneous Level Weight				0,453	0,448	2,006	1,992	3,950	14,287	30,108
Encapsulation	Thermosetting Resin	Epoxy Resin	-	/	0,632	/	2,471	4,510	11,660	/
		Polyurethane Resin (*)	-	0,632	/	2,471	/	4,510	11,660	39,580
	Plastic Case	PBT	26062-94-2	0,344	0,266	1,090	0,868	1,638	4,200	7,350
		Sb2O3	1309-64-4	0,018	0,027	0,060	0,087	0,164	0,420	0,735
		Halogenated Flame Ret. except for PBB and PBDE	-	0,018	0,027	0,060	0,087	0,164	0,420	0,735
		GF (*)	65997-17-3	/	0,057	/	0,186	0,351	0,900	1,575
Further Additives (*)	-	/	0,004	/	0,012	0,023	0,060	0,105		
Homogeneous Level Weight				1,012	1,013	3,681	3,711	6,850	17,660	50,080
Termination	Wire	Cu	7440-50-8	0,135	0,022	0,272	0,272	0,320	0,362	0,572
		Fe (*)	7439-89-6	/	0,104	/	/	/	/	/
		Sn	7440-31-5	0,004	0,013	0,024	0,024	0,044	0,322	0,078
Homogeneous Level Weight				0,139	0,139	0,296	0,296	0,364	0,684	0,650
Total Weight				1,60	1,60	5,98	6,00	11,16	32,63	80,84

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R75 Series Metallized Polypropylene Film, DC and Pulse Applications (Automotive Grade up to 22.5 mm Pitch)



Voltage Range : 160-2000 VAC

Capacitance Range : 220pF – 33 µF

Size range: 3x8x10 --30x45x41,5

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3106_R75.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 9	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Aluminium		Al	7429-90-5
		Copper (*)		Cu	7440-50-8
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Thermosetting Resin (*)	Modified cured PU (*)		Polyurethane resin	-
	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	-
		Glass Fiber (*)		GF	65997-17-3
		Further Additives (*)	-	-	
Termination	Wire	Copper	Cu-ETP	7440-50-8	
		Nickel (*)	Ni	7440-02-0	
		Zinc (*)	Zn	7440-66-6	
		Tin	EP-Sn	7440-31-5	

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 9

Material Declaration Radial Plastic Film Capacitor

R75 Series [Metallized Polypropylene Film, DC and Pulse Applications \(Automotive Grade up to 22.5 mm Pitch\)](#)



Pitch mm				7,5	10		15		22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.22uF Box dimension 6x12x10.5 mm	MAXIMUM size Cap 0.33uF Box dimension 6x12x13 mm		MAXIMUM size Cap 1.2uF Box dimension 11x19x18 mm		MAXIMUM size Cap 2.2uF Box dimension 14,5x29,5x26,5 mm	MAXIMUM size Cap 12uF Box dimension 22x37x32 mm	MAXIMUM size Cap 33uF Box dimension 30x45x41,5 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	/	0,178	0,334	0,334	1,439	1,439	4,817	11,490	27,900
	Metal	Al	7429-90-5	0,001	0,003	0,003	0,015	0,015	0,049	0,116	0,097
	Metal	Zn	7440-66-6	0,068	0,184	0,184	0,497	0,497	1,299	2,990	1,391
	Metal	Sn	7440-31-5	0,043	0,020	0,020	0,055	0,055	0,144	0,332	0,218
	Metal	Cu	7440-50-8	0,001	0,001	/	0,003	/	0,005	0,017	0,017
Homogeneous Level Weight				0,291	0,543	0,542	2,009	2,006	6,313	14,946	29,623
Encapsulation	Thermosetting Resin	Epoxy Resin	-	0,360		0,531		2,458	6,537	14,377	/
		Polyurethane Resin	-	/	0,531	0,531	2,458	2,458	6,537	14,377	37,840
	Plastic case	PBT	26062-94-2	0,233	0,344	0,266	1,090	0,868	1,960	4,410	7,350
		Sb2O3	1309-64-4	0,013	0,018	0,027	0,060	0,087	0,196	0,441	0,735
		Halogenated Flame Ret. except for PBB and PBDE	-	0,013	0,018	0,027	0,060	0,087	0,196	0,441	0,735
		GF	65997-17-3	/	/	0,057	/	0,186	0,420	0,945	1,575
Further Additives	-	/	/	0,004	/	0,012	0,028	0,063	0,105		
Homogeneous Level Weight				0,619	0,911	0,911	3,668	3,698	9,337	20,677	48,340
Termination	Wire	Cu	7440-50-8	0,041	0,134	0,134	0,272	0,272	0,325	0,362	0,572
		Ni	7440-02-0	0,012	/	/	/	/	/	/	/
		Zn	7440-66-6	0,013	/	/	/	/	/	/	/
		Sn	7440-31-5	0,002	0,013	0,013	0,024	0,024	0,029	0,032	0,078
Homogeneous Level Weight				0,068	0,147	0,147	0,296	0,296	0,354	0,394	0,650
Total Weight				0,98	1,60	1,60	5,97	6,00	16,00	36,02	78,61

(*) version available for some PNs

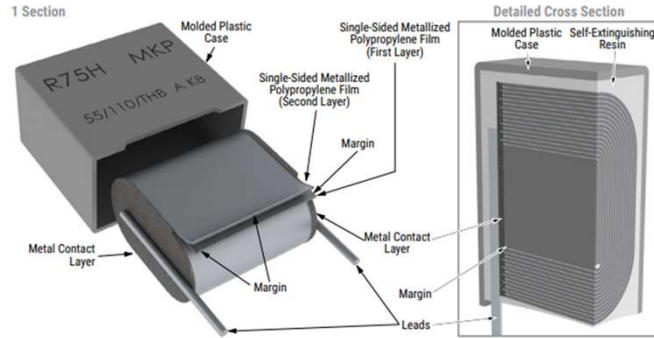
Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R75-H Series Metallized Polypropylene Film, DC and Pulse Applications 125°C



Construction



Voltage Range : 160-2000 VDC

Capacitance Range : 1nF – 33 µF

Size range: 4x9x13 --30x45x41,5

Environmental Compliance

Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3121_R75H.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 10	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal End Spray	Tin		Sn	7440-31-5
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Epoxy		EP	-
		Additives		-	-
		Aluminium Hydroxide		Al2O3	21645-51-2
	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	Multi
		Glass Fiber		GF	65997-17-3
		Further Additives		-	-
Termination	Core Metal	Copper	Cu-ETP	7440-50-8	
	Finish plating	Tin	EP-Sn	7440-31-5	

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 10

Material Declaration Radial Plastic Film Capacitor

R75-H Series Metallized Polypropylene Film, DC and Pulse Applications 125°C

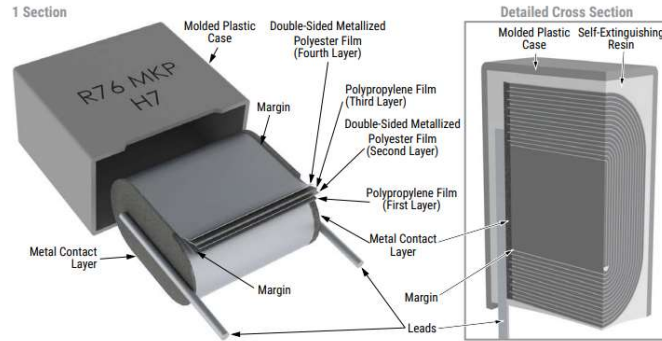
Pitch mm				10	15	22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.22uF Box dimension 6x12x13 mm	MAXIMUM size Cap 1.2uF Box dimension 11x19x18 mm	MAXIMUM size Cap 3.3uF Box dimension 13x22x26,5 mm	MAXIMUM size Cap 12uF Box dimension 22x37x32 mm	MAXIMUM size Cap 33uF Box dimension 30x45x41,5 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,312	1,439	3,134	11,490	32,438
	Metal	Al	7429-90-5	0,003	0,015	0,032	0,116	0,328
	Metal	Zn	7440-66-6	0,184	0,497	1,007	2,990	4,118
	Metal	Sn	7440-31-5	0,020	0,055	0,112	0,332	0,458
Homogeneous Level Weight				0,519	2,006	4,285	14,929	37,341
Encapsulation	Thermosetting Resin	EP	-	0,335	1,487	2,460	8,698	18,928
		Additives	-	0,006	0,025	0,041	0,144	0,313
		Al2O3	21645-51-2	0,213	0,946	1,565	5,535	12,045
	Plastic Case	PBT	26062-94-2	0,266	0,868	1,638	4,410	7,560
		Sb2O3	1309-64-4	0,027	0,087	0,164	0,441	0,756
		Halogenated Flame Ret. except for PBB and PBDE	-	0,027	0,087	0,164	0,441	0,756
		GF	65997-17-3	0,057	0,186	0,351	0,945	1,620
		Further Additives	-	0,004	0,012	0,023	0,063	0,108
Homogeneous Level Weight				0,934	3,698	6,406	20,677	42,086
Termination	Core Metal	Cu-ETP	7440-50-8	0,134	0,272	0,284	0,362	0,560
	Finish plating	EP-Sn	7440-31-5	0,013	0,024	0,025	0,032	0,013
Homogeneous Level Weight				0,147	0,296	0,310	0,394	0,573
Total Weight				1,6000	6,000	11,000	36,000	80,000

Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R76 Series Double Metallized Polypropylene Film (Automotive Grade up to 22.5 mm Pitch)

Construction



Voltage Range : 250-2000 VDC

Capacitance Range : 100pF – 12 µF

Size range: 3x8x10 --30x45x41,5

Environmental Compliance

Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3034_R76.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 11	PP	9003-07-0
		Polyester		PET	25038-59-9
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Copper (*)		Cu	7440-50-8
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Alternative Thermosetting Resin (*)	Modified cured PU		Polyurethane resin	-
	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	-
		Glass Fiber (*)		GF	65997-17-3
		Further Additives (*)	-	-	
Termination	Core Metal	Copper	Cu-ETP	7440-50-8	
	Finish plating	Tin	EP-Sn	7440-31-5	

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 11



Material Declaration Radial Plastic Film Capacitor

R76 Series Double Metallized Polypropylene Film (Automotive Grade up to 22.5 mm Pitch)

Pitch mm				7,5	10		15		22,5	27,5	37,5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.047uF Box dimension 6x12x10.5 mm	MAXIMUM size Cap 0.082uF Box dimension 6x12x13 mm		MAXIMUM size Cap 0.47uF Box dimension 11x19x18 mm		MAXIMUM size Cap 1.2uF Box dimension 13x22x26,5 mm	MAXIMUM size Cap 5.6uF Box dimension 22x37x32 mm	MAXIMUM size Cap 12uF Box dimension 30x45x41,5 mm
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,070	0,099	0,099	0,498	0,498	1,071	4,335	9,472
	Thermoplastics	PET	25038-59-9	0,112	0,197	0,197	0,996	0,996	2,143	8,670	18,944
	Metal	Al	7429-90-5	0,000	0,003	0,003	0,015	0,015	0,032	0,131	0,287
	Metal	Zn	7440-66-6	0,024	0,184	0,184	0,529	0,529	0,869	2,990	4,875
	Metal	Sn	7440-31-5	0,077	0,020	0,020	0,059	0,059	0,097	0,332	0,542
	Metal	Cu (*)	7440-50-8	0,003	0,001	0,001	0,027	/	0,006	0,018	0,082
Homogeneous Level Weight				0,286	0,503	0,503	2,123	2,096	4,217	16,476	34,203
Encapsulation	Thermosetting Resin	EP Resin	-	0,364	/	0,570	/	2,368	5,139	12,848	29,348
		PU Resin (*)	-	/	0,570	0,570	2,368	2,368	5,139	12,848	29,348
	Plastic case	PBT	26062-94-2	0,266	0,344	0,266	1,090	0,868	1,638	4,410	7,560
		Sb2O3	1309-64-4	0,015	0,018	0,027	0,060	0,087	0,164	0,441	0,756
		Halogenated Flame Ret. except for PBB and PBDE	-	0,015	0,018	0,027	0,060	0,087	0,164	0,441	0,756
		GF (*)	65997-17-3	/	/	0,057	/	0,186	0,351	0,945	1,620
		Further Additives (*)	-	/	/	0,004	/	0,012	0,023	0,063	0,108
Homogeneous Level Weight				0,660	0,950	0,950	3,578	3,608	7,479	19,148	40,148
Termination	Core Metal	Cu-ETP	7440-50-8	0,091	0,134	0,134	0,272	0,272	0,284	0,362	5,262
	Finish plating	EP-Sn	7440-31-5	0,003	0,013	0,013	0,024	0,024	0,025	0,032	0,469
Homogeneous Level Weight				0,094	0,147	0,147	0,296	0,296	0,310	0,394	5,731
Total Weight				1,04	1,60	1,60	6,00	6,00	12,01	36,02	80,08

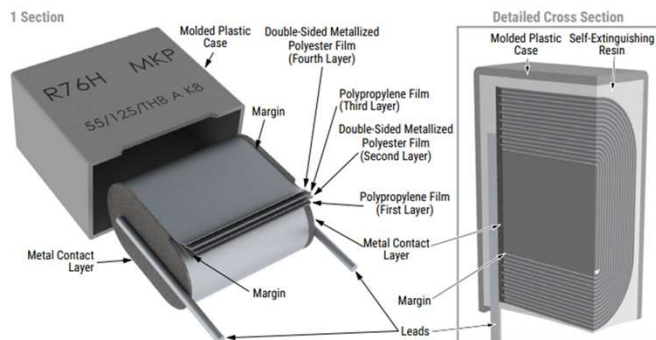
(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R76-H Series 125°C Double Metallized Polypropylene Film, Radial, DC and Pulse Applications (Automotive Grade)

Construction



Voltage Range : 250-2000 VDC

Capacitance Range : 470pF – 12 µF

Size range: 4x9x13 --30x45x41,5

Environmental Compliance

Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3118_R76H.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 12	PP	9003-07-0
		Polyester		PET	25038-59-9
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Epoxy Polymer		EP	-
		Titanium dioxide		TiO2	13463-67-7
		Brominated flame retardants (other than PBBs or PBDEs)		-	-
		Aluminium Hydroxide		Al2O3	21645-51-2
		Antimony Trioxide		Sb2O3	1309-64-4
	Alternative Thermosetting Resin (*)	Epoxy Resin		EP	-
		Additives		-	-
		Aluminium Hydroxide		Al2O3	21645-51-2
	Plastic Case	Polybutylene terephthalate		PBT	26062-94-2
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE	-	Multi	
Glass Fiber		GF	65997-17-3		
Further Additives		-	-		
Termination	Core Metal	Copper	Cu-ETP	7440-50-8	
	Finish plating	Tin	EP-Sn	7440-31-5	

(*) version available for some PN's

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 12



Material Declaration Radial Plastic Film Capacitor

R76-H Series [125°C Double Metallized Polypropylene Film, Radial, DC and Pulse Applications \(Automotive Grade\)](#)

Pitch mm				10	15	22,5	27,5	37,5	
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.082uF Box dimension 6x12x13 mm	MAXIMUM size Cap 0.47uF Box dimension 11x19x18 mm	MAXIMUM size Cap 1.2uF Box dimension 13x22x26,5 mm	MAXIMUM size Cap 5.6uF Box dimension 22x37x32 mm	MAXIMUM size Cap 12uF Box dimension 30x45x41,5 mm	
				Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	Weight (gr)	
Element	Thermoplastics	PP	9003-07-0	0,099	0,466	1,071	4,335	9,472	
	Thermoplastics	PET	25038-59-9	0,197	0,932	2,143	8,670	18,944	
	Metal	Al	7429-90-5	0,003	0,014	0,032	0,131	0,287	
	Metal	Zn	7440-66-6	0,184	0,529	0,869	2,990	4,875	
	Metal	Sn	7440-31-5	0,020	0,059	0,097	0,332	0,542	
Homogeneous Level Weight				0,503	2,000	4,211	16,458	34,121	
Encapsulation	Thermosetting Resin	Epoxy polymer	-	0,285	1,232	2,069	6,424	14,674	
		TiO2	13463-67-7	0,017	0,074	0,124	0,385	0,880	
		Brominated flame retardants (other than PBBs or PBDEs)	-	0,034	0,148	0,248	0,771	1,761	
		Al2O3	21645-51-2	0,211	0,912	1,531	4,754	10,859	
		Sb2O3	1309-64-4	0,023	0,099	0,166	0,514	1,174	
	Thermosetting Resin (*)	Epoxy resin	-	0,3451	/	/	/	/	
		Additives	-	0,0057	/	/	/	/	
		Al2O3	21645-51-2	0,2196	/	/	/	/	
	Plastic Case	PBT	26062-94-2	0,266	0,868	1,638	4,410	7,560	
		Sb2O3	1309-64-4	0,027	0,087	0,164	0,441	0,756	
		Halogenated Flame Ret. except for PBB and PBDE	-	0,027	0,087	0,164	0,441	0,756	
		GF	65997-17-3	0,057	0,186	0,351	0,945	1,620	
		Further Additives	-	0,004	0,012	0,023	0,063	0,108	
	Homogeneous Level Weight				0,950	3,704	6,479	19,148	40,148
	Termination	Core Metal	Cu-ETP	7440-50-8	0,134	0,272	0,284	0,362	5,262
Finish plating		EP-Sn	7440-31-5	0,013	0,024	0,025	0,032	0,469	
Homogeneous Level Weight				0,147	0,296	0,310	0,394	5,731	
Total Weight				1,600	6,000	11,000	36,000	80,000	

(*) version available for some PNs

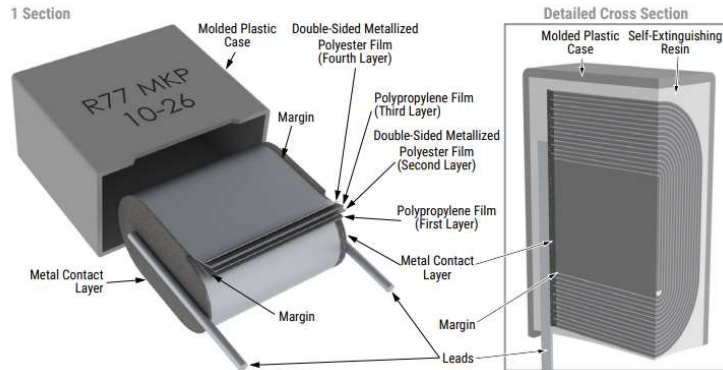
Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R77 Series [Double Metallized Polypropylene Film, Radial, AC Applications](#)



Construction



Voltage Range :

250-950VAC

Capacitance Range :

0.001 μ F – 0.1 μ F

Size range:

5x11x18 –13X22X32

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3035_R77.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized Film	Polypropylene	see Annex 13	PP	9003-07-0
		Polyester		PET	25038-59-9
		Aluminium		Al	7429-90-5
	MetalSpray	Tin		Sn	7440-31-5
		Copper		Cu	7440-50-8
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Modified cured PU		Polyurethane resin	-
	Plastic Case	Polybutylene terephthalate		PBT	24968-12-5
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	-
		Glass Fiber (*)		GF	65997-17-3
		Further Additives (*)		-	-
Termination	Core Metal	Copper		Cu-ETP	7440-50-8
	Finish plating	Tin	EP-Sn	7440-31-5	

(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 13

Material Declaration Radial Plastic Film Capacitor

R77 Series Double Metallized Polypropylene Film, Radial, AC Applications

Pitch mm				15	22,5	27.5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.1uF Box dimension 10x16x18 mm	MAXIMUM size Cap 0.018uF Box dimension 11x20x26,5 mm	MAXIMUM size Cap 0.068uF Box dimension 11x20x32 mm
				Weight (gr)	Weight (gr)	Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,631	1,671	2,062
	Thermoplastics	PET	25038-59-9	0,441	0,782	0,605
	Metal	Al	7429-90-5	0,049	0,130	0,161
	Metal	Zn	7440-66-6	0,367	0,294	0,220
	Metal	Sn	7440-31-5	0,060	0,057	0,038
	Metal	Cu	7440-50-8	0,002	0,004	0,003
Homogeneous Level Weight				1,550	2,938	3,089
Encapsulation	Thermosetting Resin	Polyurethane resin	-	1,737	2,351	3,155
	Plastic case	PBT	24968-12-5	0,828	1,260	1,400
		Sb2O3	1309-64-4	0,046	0,126	0,140
		Halogenated Flame Ret. except for PBB and PBDE	-	0,046	0,126	0,140
		GF (*)	65997-17-3	/	0,270	0,300
		Further Additives (*)	-	/	0,018	0,020
Homogeneous Level Weight				2,657	4,151	5,155
Termination	Core Metal	Cu-ETP	7440-50-8	0,177	0,344	0,308
	Finish plating	EP-Sn	7440-31-5	0,006	0,047	0,042
Homogeneous Level Weight				0,182	0,391	0,350
Total Weight				4,39	7,48	8,59

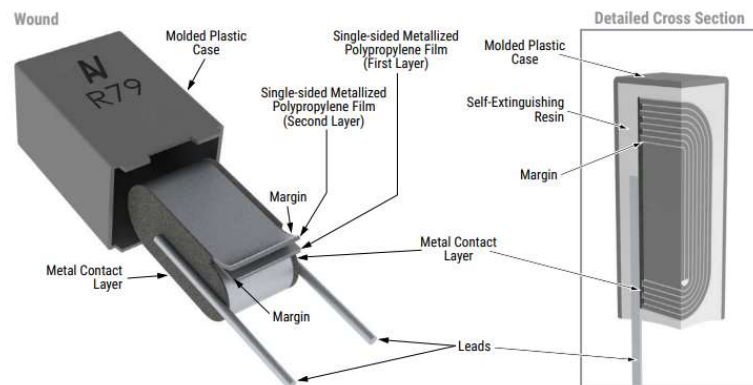
(*) version available for some PNs

Remark: Material declaration of special part number will be individually released

Material Declaration Radial Plastic Film Capacitor

R79 Series [Single Metallized Polypropylene Film, Radial, 5 mm Lead Spacing, Multipurpose Applications](#)

Construction



Voltage Range : 160-630VDC

Capacitance Range : 0.001 μ F – 0.22 μ F

Size range: 3.5x7.5x7.2 -7.2X213X7.2

Environmental Compliance

Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	NO

https://content.kemet.com/datasheets/KEM_F3107_R79.pdf

Homogeneous Level	Construction Element	Substance	Weight (gr)	Common Name	CAS #
Element	Metallized PP Film	Polypropylene	see Annex 14	PP	9003-07-0
		Aluminium		Al	7429-90-5
	Metal Spray	Tin		Sn	7440-31-5
		Copper		Cu	7440-50-8
		Zinc		Zn	7440-66-6
Encapsulation	Thermosetting Resin	Modified cured EP		Epoxy resin	-
	Plastic Case	Polybutylene terephthalate		PBT	24968-12-5
		Antimony trioxide		Sb2O3	1309-64-4
		Halogenated Flame Ret. except for PBB and PBDE		-	-
Termination	Wire	Copper		Cu-ETP	7440-50-8
		Nickel	Ni	7440-02-0	
		Zinc	Zn	7440-66-6	
		Tin	EP-Sn	7440-31-5	

Remark: Material declaration of special part number will be individually released

<https://www.kemet.com/en/us/rohs-documents.html>

Annex 14



Material Declaration Radial Plastic Film Capacitor

R79 Series [Single Metallized Polypropylene Film, Radial, 5 mm Lead Spacing, Multipurpose Applications](#)

Pitch mm				5
Homogeneous Level	Material	Substance	CAS No.	MAXIMUM size Cap 0.22uF Box dimension 7.2x13x7.2 mm
				Weight (gr)
Element	Thermoplastics	PP	9003-07-0	0,219
	Metal	Al	7429-90-5	0,001
	Metal	Zn	7440-66-6	0,131
	Metal	Sn	7440-31-5	0,144
	Metal	Cu	7440-50-8	0,005
Homogeneous Level Weight				0,499
Encapsulation	Thermosetting Resin	Epoxy Resin	-	0,281
	Plastic case	PBT	24968-12-5	0,212
		Sb2O3	1309-64-4	0,012
		Halogenated Flame Ret. except for PBB and PBDE	-	0,012
Homogeneous Level Weight				0,517
Termination	Wire	Cu-ETP	7440-50-8	0,041
		Ni	7440-02-0	0,012
		Zn	7440-66-6	0,013
		EP-Sn	7440-31-5	0,002
Homogeneous Level Weight				0,068
Total Weight				1,085

Remark: Material declaration of special part number will be individually released