

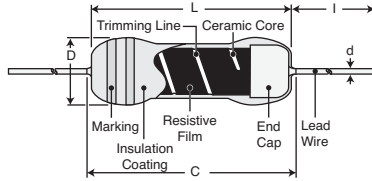
# KOA SPEER 1% Metal Film Resistors - 1/4, 1/2 Watt



RoHS Compliant **This product is RoHS compliant.**

**Features:**

- Units meet or exceed the requirements of MIL-R-10509
- Suitable for automatic machine insertion
- Marking: Blue-gray body color with color-coded bands



**ORDERING INFORMATION**

Type	DIMENSIONS: in. (mm)				
	L	C (max.)	D	d (nom.)	I
MF1/4	.248 (6.3)	.280 (7.1)	.091±.012 (2.3±0.3)	.024±.002 (0.6±0.05)	1.18±.118 (30.0±3.0)
MF1/2	.374 (9.5)	.437 (11.1)	.138±.016 (3.5±0.4)		



**ORDERING INFORMATION**

In a continual effort to support their customer base on a global environment, KOA Corporation is adopting a new global part numbering system.

<b>MF</b>	<b>1/4</b>	<b>D</b>	<b>C</b>	<b>T52</b>	<b>R</b>	<b>1002</b>	<b>F</b>
Type	Power Rating	T.C.R.	Termination Material	Taping and Forming	Packaging	Nominal Resistance	Tolerance
MF	1/4: 0.25W 1/2: 0.5W	C±50 D±100	C: SnCu	T52	R: Reel	3 significant figures + 1 multiplier "R" indicates decimal on value<10.0.	F±1.0%



RoHS Compliant

Leaded Resistors

KOA Speer

KOA Series	Watt	Toler.	TCR	Value Range	BULK PACKAGING				TAPE AND REEL							
					MOUSER STOCK NO.		Price Each		MOUSER STOCK NO.		Reel Quantity	Price Each				
					Value	code	1	100	500	1000		Value	code	5,000	10,000	50,000
MF1/4CC	1/4	1%	50	1-49.9	<b>660-MF1/4CC</b>	code	.33	.26	.221	.09	<b>660-MF1/4CCT52R</b>	code	5000	.09	.086	.075
MF1/4CC	1/4	1%	50	51.1-2.21M	<b>660-MF1/4CC</b>	code	.14	.12	.101	.082	<b>660-MF1/4CCT52R</b>	code	5000	.08	.075	.07
MF1/4DC	1/4	1%	100	10-2.21M	<b>660-MF1/4DC</b>	code	.06	.04	.03	.028	<b>660-MF1/4DCT52R</b>	code	5000	.026	.023	.02
							Price Each						Price Each			
							1	100	500	1000			4,000	8,000	12,000	
MF1/2CC	1/2	1%	50	1-49.9	<b>660-MF1/2CC</b>	code	.33	.26	.221	.09	<b>660-MF1/2CCT52R</b>	code	4000	.09	.058	.056
MF1/2CC	1/2	1%	50	51.1-2.21M	<b>660-MF1/2CC</b>	code	.18	.15	.141	.135	<b>660-MF1/2CCT52R</b>	code	4000	.07	.058	.056
MF1/2DC	1/2	1%	100	10-2.21M	<b>660-MF1/2DC</b>	code	.16	.14	.11	.106	<b>660-MF1/2DCT52R</b>	code	4000	.106	.058	.056

Table of Stocked Values

Value	Value Code	Value	Value Code	Value	Value Code	Value	Value Code	Value	Value Code	Value	Value Code	Value	Value Code
1	1R00F	475	4750F	2.21K	2211F	6.19K	6191F	16.9K	1692F	45.3K	4532F	150K	1503F
2	2R00F	499	4990F	2.32K	2321F	6.49K	6491F	17.4K	1742F	46.4K	4642F	158K	1583F
10	10R0F	511	5110F	2.37K	2371F	6.65K	6651F	17.8K	1782F	47K	4702F	162K	1623F
20	20R0F	562	5620F	2.43K	2431F	6.81K	6811F	18K	1802F	47.5K	4752F	169K	1693F
22.1	22R1F	604	6040F	2.49K	2491F	6.98K	6981F	18.2K	1822F	49.9K	4992F	178K	1783F
24.3	24R3F	619	6190F	2.67K	2671F	7.15K	7151F	18.7K	1872F	51.1K	5112F	182K	1823F
30.1	30R1F	665	6650F	2.74K	2741F	7.32K	7321F	19.1K	1912F	52.3K	5232F	200K	2003F
33.2	33R2F	680	6800F	2.8K	2801F	7.5K	7501F	19.6K	1962F	56.2K	5622F	205K	2053F
39.2	39R2F	681	6810F	2.87K	2871F	7.68K	7681F	20K	2002F	59K	5902F	210K	2103F
47	47R0F	698	6980F	2.94K	2941F	7.87K	7871F	20.5K	2052F	60.4K	6042F	221K	2213F
47.5	47R5F	732	7320F	3.01K	3011F	8.06K	8061F	21.5K	2152F	61.9K	6192F	226K	2263F
49.9	49R9F	750	7500F	3.24K	3241F	8.25K	8251F	22.1K	2212F	63.4K	6342F	249K	2493F
51.1	51R1F	768	7680F	3.32K	3321F	8.45K	8451F	22.6K	2262F	66.5K	6652F	261K	2613F
61.9	61R9F	806	8060F	3.4K	3401F	8.66K	8661F	23.7K	2372F	68.1K	6812F	267K	2673F
68.1	68R1F	825	8250F	3.48K	3481F	9.09K	9091F	24.3K	2432F	69.8K	6982F	274K	2743F
75	75R0F	887	8870F	3.57K	3571F	9.31K	9311F	24.9K	2492F	71.5K	7152F	280K	2803F
82.5	82R5F	909	9090F	3.65K	3651F	9.53K	9531F	25.5K	2552F	75K	7502F	294K	2943F
100	1000F	953	9530F	3.74K	3741F	10K	1002F	26.1K	2612F	76.8K	7682F	301K	3013F
121	1210F	976	9760F	3.83K	3831F	10.2K	1022F	26.7K	2672F	80.6K	8062F	332K	3323F
130	1300F	1K	1001F	3.92K	3921F	10.5K	1052F	27.4K	2742F	82.5K	8252F	392K	3923F
150	1500F	1.1K	1101F	4.02K	4021F	10.7K	1072F	28K	2802F	84.5K	8452F	464K	4643F
182	1820F	1.21K	1211F	4.22K	4221F	11K	1102F	28.7K	2872F	86.6K	8662F	470K	4703F
200	2000F	1.3K	1301F	4.42K	4421F	11.3K	1132F	30.1K	3012F	88.7K	8872F	475K	4753F
221	2210F	1.33K	1331F	4.53K	4531F	11.5K	1152F	30.9K	3092F	90.9K	9092F	499K	4993F
237	2370F	1.47K	1471F	4.64K	4641F	12K	1202F	31.6K	3162F	93.1K	9312F	511K	5113F
249	2490F	1.5K	1501F	4.7K	4701F	12.1K	1212F	32.4K	3242F	100K	1003F	562K	5623F
261	2610F	1.58K	1581F	4.75K	4751F	12.4K	1242F	33.2K	3322F	102K	1023F	681K	6813F
274	2740F	1.78K	1781F	4.87K	4871F	12.7K	1272F	34K	3402F	110K	1103F	1M	1004F
287	2870F	1.82K	1821F	4.99K	4991F	13K	1302F	35.7K	3572F	115K	1153F	1.5M	1504F
301	3010F	1.87K	1871F	5.1K	5101F	13.3K	1332F	36.5K	3652F	121K	1213F	1.82M	1824F
332	3320F	1.96K	1961F	5.11K	5111F	14K	1402F	37.4K	3742F	124K	1243F	2M	2004F
348	3480F	2K	2001F	5.36K	5361F	14.3K	1432F	38.3K	3832F	127K	1273F	2.21M	2214F
385	3850F	2.05K	2051F	5.49K	5491F	15K	1502F	39.2K	3922F	130K	1303F		
392	3920F	2.1K	2101F	5.62K	5621F	15.4K	1542F	40.2K	4022F	133K	1333F		
464	4640F	2.15K	2151F	5.76K	5761F	15.8K	1582F	42.2K	4222F	143K	1433F		
470	4700F	2.2K	2201F	5.9K	5901F	16.2K	1622F	43.2K	4322F	147K	1473F		



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